

FINANCIAL TIMES

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D 8523 B

Italy fears a terrorism revival, Page 2

Australia	Sh 18	Indonesia	Rp 2500	Peru	So 100
Belgium	Bfr 36	Italy	L 1200	S. Arabia	Rb 600
Canada	Cdn 100	Japan	Y 1500	Singapore	S\$ 4.10
Denmark	Dkr 25	Malaysia	Mal 500	Sri Lanka	Rs 200
France	Ffr 60	Norway	Nkr 50	Sweden	Skr 2.00
Germany	DM 2.20	Portugal	Pesc 200	Switzerland	Sfr 2.00
Greece	Dr 200	Spain	Ptas 165	Taiwan	Nt 80
Hong Kong	Hk\$ 1.00	Thailand	Bat 50	Turkey	L 1.00
India	Rs 15	USA	\$ 1.00	U.K.	£ 1.00

NEWS SUMMARY

GENERAL

Over 20 killed in India poll against violence

Polling in India's general election resumes this morning with reports of ballot-rigging during the first stage of voting on Monday and after more than 20 people died in violent clashes. One opposition leader claimed that an attempt had been made on his life.

A fairly high turnout of between 60 and 65 per cent was estimated on Monday, when two thirds of the country's 380m registered voters went to the polls.

Mr Rajiv Gandhi's Congress (I) party remained confident of a comfortable victory even though a high turnout traditionally favours the opposition. Page 10

BUSINESS

Settlers' blockade

French police fired tear gas and stun grenades to disperse 300 anti-independence settlers manning roadblocks in the southern Pacific territory of New Caledonia.

Tehran bomb denial

Iranian opposition Mujaheddin group denied responsibility for a Tehran bomb attack that killed six people. Another bomb exploded yesterday.

Popieluszko trial

Three Polish security police who confessed to murdering radical priest Father Jerzy Popieluszko are to go on trial in the northern town of Torun.

Sikh returned

Jasbir Singh, a prominent Sikh activist and nephew of former Sikh extremist leader Jarnail Singh Bhindranwala, was flown to New Delhi from Manila after being refused entry.

Afghan attack claim

Six Afghan aircraft attacked a Pakistani border region, killing four villagers and injuring six, the Pakistan Government claimed.

Train bomber sought

Italian police were hunting a man who left the Naples-Milan express just before a bomb blew it up, killing at least 15 people and injuring 180. Italy mourns. Page 2

Sudan reshuffle

Sudanese President Jaafar Nimeiri, whose administration is facing serious economic problems and rebellion in the south, dismissed the Finance Minister and several key officials in his second Cabinet reshuffle this year. Page 2

Gaddafi move

Libyan leader Col Muammar Gaddafi said he would ask his country's Peoples Congress to release four Britons held since June.

E. Germans 'give up'

A number of East Germans trying to get to the West by seeking asylum in West German embassies in Prague, Warsaw and Budapest, have decided to give up and return home, the West German newspaper Bild said.

Peace plan dropped

The Sri Lankan Government dropped a controversial peace plan proposed by President Junius Jayawardene to ease unrest between the island's majority Sinhalese and minority Tamils.

Kahane restricted

Israeli Knesset (parliament) voted to ban extremist anti-Arab member Rabbi Meir Kahane from visiting Arab villages without prior police approval. Page 2

Soviet peace award

The Soviet Union's only Catholic Cardinal, Julian Valvodos, 89, has been given an award by the official Soviet disarmament campaign.

STERLING

fell further against the dollar to close in New York at \$1.1675 (\$1.16875). Other currencies closed at DM 3.1310 (DM 3.122), Sfr 2.5775 (Sfr 2.5715), FFf 9.5725 (FFf 9.5425) and Y249.55 (Y247.95). Currencies, Page 23

WALL STREET

The Dow Jones industrial average closed down 1.22 at 1,208.92. Report, Page 13; Prices, Pages 13-17

TOKYO

stocks lost much of their early gains, leaving the Nikkei-Dow market average 2.30 up at 11,494.58, but the stock exchange index breached the 900 level with a six-point gain to 904.99. Report, Page 13; Prices, Page 16

FT GOLD MINES INDEX

rose 8.8 to 477.7 on Monday, a mainly technical recovery. Bullion price was \$325.25 higher at \$313.5 an ounce. London Stock market report. Page 17

ISRAEL

, struggling with severe economic problems, was warned by the U.S. that it must take tougher action if it is to receive continued aid. Page 2

TURKEY

and the Soviet Union signed agreements to significantly expand trade and long-term economic co-operation. Page 2

EGYPT

is to overhaul its exchange rate system to eradicate black market trading and to ensure an adequate supply of U.S. dollars. Page 2

CONSOLIDATED GOLD FIELDS

, British-based international mining and industrial group, made a \$61.5m (\$72.3m) agreed bid for UK quarrying and construction group Bath and Portland, which was the target of a takeover offer by C. H. Beazer (Holdings). Page 10

JAGUAR

, the UK luxury car maker, is changing its distribution on the European continent in a push for higher sales. Page 4

MERRILL LYNCH

, U.S. securities firm, failed in its attempt to become the first foreign broker to get a seat on the Tokyo Stock Exchange. Page 10

PACIFIC TELEVISION

, one of the leading U.S. telephone operating companies, is to enter the British telecommunications market through acquisitions and joint ventures. Page 10

CREUSOT-LOIRE

and Schneider shares resumed trading in Paris after a near 6½-month suspension when the former went bankrupt. Trading was again halted because of order imbalances. Page 13

KUALA LUMPUR KEFONG

, Malaysia's fourth largest plantation group, has doubled pre-tax profits to 102m ringgit (\$42.5m) for the year ended September. Page 11

SWISSAIR

, Switzerland's national airline, expects to show a higher net profit for 1984 than the record Sfr 56.3m (\$22m) for the previous year. Page 11

BOND CORPORATION

, master company of Mr Alan Bond's Perth-based beer, property and investment group, has agreed with Amalgamated Wireless Australia to buy the QTV 9 television channel in Brisbane, Queensland, for A\$65m (\$54.2m). Page 11

NORSK-HYDRO

and Borregaard, two of Norway's leading industrial groups, have announced a share swap. Page 11

Phillips recapitalisation deal sets precedent for takeover defences

PHILLIPS PETROLEUM, the ninth largest U.S. oil company, has fought off a takeover attempt by Mr T. Boone Pickens, the Texas oil specialist, with an unprecedented standstill agreement involving a sweeping recapitalisation of the group, writes Terry Dodsworth in New York.

The surprise deal will earn Mr Pickens's Mesa Petroleum consortium an estimated \$89m gross profit. It also exposes Mr Pickens, who

in the last two years has led a number of successful assaults on undervalued oil companies, to charges of "greenmail" - the practice of forcing target companies to buy back shares at a profit not available to other shareholders.

In the early stages of his offer for Phillips Mr Pickens promised he would never indulge in greenmail, and said he would not stand for unusual treatment of shareholders.

The standstill agreement covers

all of Mr Pickens's costs, but prohibits him from buying Phillips shares for 15 years. The deal reached late on Saturday just before the Christmas holidays, was met with a confused response on the New York Stock Exchange.

Speculators and arbitrators who had gambled heavily on a protracted bid battle were badly shaken by the unexpected announcement. A heavy sale of Phillips stock left it down by 38% at \$454 on Monday, although it recovered slightly in early trading yesterday to \$464. Mesa shares fell on Monday, but rose by 5% yesterday to \$188 in early trading.

Some speculators, however, argued that the sudden pact may mean that Mr Pickens is lining up another oil company for a takeover attempt. The subsequent flutter of bid interest pushed up the shares of a variety of oil groups, including Mobil, Unocal, Amerada Hess and Sun.

Virtually all analysts were agreed, however, that the deal set a precedent in U.S. takeover defences. It was partly structured as an employee buy-out on the lines of the recently popular leveraged deals, leaving company staff with a stake of almost 40 per cent, and raising debt to around 70 per cent of the equity.

At the same time, it involved the company buying in a large amount of its own shares, which should have the effect of buoying up its long-term share price, while making it easier to guarantee a high buy-out price to Mr Pickens.

Subject to shareholder approval, the agreement between the two companies provides for the recapitalisation of Phillips in five separate steps.

Continued on Page 10

Opec faces battle to enforce output and pricing policy

BY RICHARD JOHNS IN LONDON

THE Organisation of Petroleum Exporting Countries resumes its conference in Geneva this afternoon amid uncertainty as to how wholeheartedly governments will support plans for strict policing of output and prices.

Delegates reassemble knowing that agreement on an effective programme for enforcing total respect for the 13 members' individual quotas and the ceiling on collective output of 16m barrels a day is essential if Opec is to recover credibility in the market and reverse the slide in oil prices.

Acceptance of the plan to supervise strictly their operations could founder on failure to adopt a new and plausible system of price differentials.

On his arrival in Geneva last night Dr Mansour bin Otaiba, the United Arab Emirates' Minister of Oil, said his country "will go for a price war" against other producers unless a package deal including differentials as well as the pricing scheme. In doing so he seemed to confirm that President Zayed of the UAE had rejected proposals contained in a letter from King Fahd of Saudi Arabia delivered on Christmas Day.

Consultations in the Gulf over the past few days appear to have failed to produce a compromise on differentials. Industry analysts and, indeed, many Opec-appointed inspectors believe that it is infinitely related to production discipline, because if prices are out of line some members are incapable of achieving their quotas under the ceiling.

Opec adjourned its conference on December 22 until today so that chief delegates could obtain full backing from their heads of state and governments for a radical scheme whereby operations of member states would be audited and breaches of commitments fully exposed.

It is the first time that Opec, whose statutes have no supra-national provisions, has moved to touch on the sovereignty of member states. Under the plan worked out last week Opec-appointed inspectors would be stationed on their territory with the right to see all relevant documents about the volume and price of exports of crude oil and refined products.

Yesterday Indonesia and the United Arab Emirates became the first members to indicate unqualified support for the plan worked out last week by a four-man ministerial team headed by Sheikh Ahmed Zaki Yamani of Saudi Arabia, before Opec adjourned its conference.

Dr Subroto, Indonesian Minister of Mines and Energy, said that President Suharto supported the idea without reservation.

Speaking in Jakarta before his departure for Geneva he expressed optimism that other members of Opec would endorse the proposals for supervising output prices which have not so far been officially revealed.

Mr Mohammed Gharazi, Iran's Oil Minister was reported by the official IRNA news agency in Tehran as saying that Iran would defend a

Iran steps up attacks on ships in Gulf

BY PETER MONTAGNON IN LONDON

ARGENTINA was yesterday embroiled in a last-minute struggle to secure the level of subscriptions to its \$4.2bn loan from creditor banks needed to win release of a \$1.4bn credit from the International Monetary Fund (IMF), before the end of the year.

Less than 48 hours before the IMF executive board was to vote on Argentina's economic stabilisation programme, subscriptions to the loan were still running slightly short of the 90 per cent target set by Mr Jacques de Larosiere, the IMF managing director.

With money continuing to flow in over the Christmas holiday period, bankers said they believed the shortfall might be made up in time for the IMF board meeting in Washington tomorrow.

In Buenos Aires Sr Leopoldo Portnoy, Deputy President of Argentina's central bank, said yesterday that the credit was already at least 85 per cent subscribed.

Argentina's creditors banks had been asked to reply to the country's loan request by Christmas, in plenty of time for the IMF board meeting, which is to vote on an economic recovery programme designed to halve inflation to about 300 per cent by next autumn.

Mr de Larosiere has made clear to the banks that the programme will not be viable without their financial support.

Initial replies to the loan request were however slower than expected. Apart from the reluctance of some banks to put up fresh money for Argentina, others have faced technical difficulties in making their commitments.

Those centre on the need to win board approval for the measures in less than a month and the difficult self-assessment process. Banks have to calculate their own subscriptions to the loan at a rate of 16% per cent of their existing exposure and that figure then has to be reconciled with Argentina's own assessment.

Senior bankers say there has

Continued on Page 10

policy of "controlled oil production and prices. He said that Iranian leaders including President Ali Khamenei were in favour of stabilising the price of the marker Arabian Light at \$29 a barrel and output at 16m barrels a day (b/d).

In Lagos Mr Tam David-West, Nigerian Minister of Oil, said that proposals so far made for closing the gap in official selling rates amounted to no more than a "cosmetic solution".

He was evidently referring to Saudi Arabia's insistence that the reference price of \$29 for Arabian Light should remain unchanged while prices for heavier crudes should be raised by 50 cents and those for lighter crudes like those produced by Nigeria and the UAE should be lowered by 25 cents.

Accompanied by Sheikh Ali Khalifa al Sabah, Kuwait's Minister of Oil, Sheikh Yamani visited Abu Dhabi on Christmas Day and delivered a letter to King Fahd of Saudi Arabia. It was believed to be related to the differentials problem but - to judge by Dr Otaiba's remarks yesterday in Geneva - was not successful in persuading Abu Dhabi (which is responsible for about two thirds of UAE capacity and output) that the price of Arabian Light should remain unchanged.

Libya is also understood to be in favour of reducing the marker price as a means of reducing the range of price differentials.

Continuing to show solidarity with Opec, Mexico has announced unchanged oil prices for January but has warned that it may change its oil export policies if some members of Opec persist in "irresponsible practices." For the time being it is continuing to restrict exports having cut them by 100,000 b/d last month.

FT GOLD MINES INDEX
December 1984

Japan's ministries call for more cash from 1985 draft budget

BY ROBERT COTTRELL IN TOKYO

JAPANESE government ministries are fighting this week to increase the cash allocated to them for fiscal 1985, which begins on April 1.

Mr Yasuhiro Nakasone, Prime Minister, and his Cabinet approved on Monday a draft budget prepared by the Finance Ministry which calls for total general account expenditure of ¥24.3 trillion (\$21.1bn) in fiscal 1985 - a 3.7 per cent increase on the amount approved in the budget drafted for fiscal 1984.

The draft includes a contingency allocation of ¥160bn which will be awarded to ministries in a last round of negotiations this week, before final Cabinet approval of the budget scheduled for Saturday.

Political interest centres on how much of the contingency fund will be allocated to defence. The draft budget offers the Defence Agency ¥3.09 trillion (million million), a 5.1 per cent increase over fiscal 1984. However, Defence Agency officials say they want an increase closer to 7 per cent, after 6.55 per cent growth this fiscal year.

The draft foresees government bond issues of ¥11.69 trillion in 1985, a reduction of ¥1 trillion over 1984. Tax revenues are forecast at ¥38.55 trillion, and non-tax revenues at ¥2.27 trillion.

However, the cost to the Japanese Government of servicing its existing debt is expected to rise by 11.7 per cent to ¥10.22 trillion in 1985, making this the largest item of national expenditure for the first time. Social security slips into second place with a 2.4 per cent rise, to ¥9.54 trillion.

The draft includes a rise of 9 per cent to ¥9.69 trillion in grants to local government. Excluding debt servicing and local government grants, the government's operating expenditures in 1985 as drafted would total ¥32.59 trillion, virtually unchanged from this year.

Expenditure under the Government's fiscal investment and loans programme - a separate schedule of capital works funded from deposits with the state-owned Postal Savings Bank - is expected to total ¥20.7 trillion in 1985, a 1.9 per cent decrease on this year's draft total of ¥21.1 trillion.

The proposals for 1985 include an increase in the state-controlled price of rice, higher medical charges, increased fares on the state-owned, loss-making Japan National Railways, and reduced state subsidies in private universities.

The budget represents Mr Nakasone's third successive "austerity" package, and has received a mixed reaction. The Asahi Shimbun news-

paper said the draft represented "ailing national finances being pulled apart by political forces". It criticises the draft for acknowledging only the servicing cost of outstanding government debt, without providing for future bond redemptions.

The Asahi also said it was "concerned that it has become an established pattern in recent years to pad defence outlays by an additional 1.4 per cent in political negotiations following the announcement of the Finance Ministry's draft budget," and said Mr Nakasone should be "aware of growing public opinion against the pro-defence build-up elements in the LDP (Japan's ruling Liberal Democratic Party)."

Judicial pressure is increasing for the LDP to redress imbalances in the size of constituencies returning members to the House of Representatives, the lower house of the national Diet or parliament.

A high court in Sapporo on the northern island of Hokkaido said on Tuesday that the distribution of seats in Japan's December general election was so unfair as to render the election "against the spirit of the constitution." The judge refused to declare the general election void, however.

We take this opportunity to wish our many friends the compliments of the season and best wishes for 1985

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OVERSEAS NEWS

Italy fears revival of terrorism

BY ALAN FRIEDMAN IN MILAN

THIS MORNING, as funeral ceremonies begin in Bologna for the 15 killed in Sunday evening's terrorist bombing of the Naples-Milan Express Train 904, Italy remains stunned by the carnage and by fears that it could be a prelude to the rampant terrorism of the 1970s.

180 people died in a terrorist bombing in August 1980. By Christmas Day, 15 terrorist organisations had telephoned Italian news agencies to claim responsibility for Sunday's attack.

Police were yesterday searching the homes of political extremists in various Italian cities, concentrating on right wingers. An identikit picture of the man seen leaving the train before the attack was shown to a short, oval face with stubble beard and spectacles.

Tikhonov signs two trade pacts with Turkey

By David Barchard in Ankara

MR NIKOLAI TIKHONOV, Soviet Union Prime Minister, yesterday signed two trade protocols with Turkey during a six-day visit to the country.

Shultz warns Israel over terms for economic aid

BY OUR TEL AVIV CORRESPONDENT

THE ISRAELI Government, struggling with serious economic difficulties, has been bluntly warned by the U.S. that it must take tougher action if it wishes to receive desperately needed American economic aid.

According to the reports, Mr Shultz, who is known to be taking a close interest in Israel's efforts to free itself from inflation-induced economic chaos, gave the Government a virtual ultimatum.

The U.S. has been urging Israel to slash government expenditure for months but so far the divided Cabinet has been unable to agree on the cuts in the U.S. seeks. Last week, Israel asked Washington to provide an immediate \$800m in additional aid and submitted a record \$4.1bn aid request for the 1985 fiscal year.

Car sales in W. Europe drop 2%

BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDENT

CAR SALES in Western Europe fell by about 2 per cent in 1984, from 10,267m in 1983 to just over 10m, according to Ford of Europe estimates.

Ford's own commercial vehicle registrations also slipped, from 142,000 in 1983 to about 140,000 but that was enough to increase its share of the European market marginally from 10.6 per cent to 10.7 per cent.

Nimeiri sacks his finance minister

By Our Cairo Correspondent

SUDAN'S President, Gen Jaafar Nimeiri, whose administration is facing serious economic problems and a rebellion in the south of the country, has sacked a number of key officials including the finance minister.

Knesset restricts Kahane's movements

By Our Tel Aviv Correspondent

THE ISRAELI Knesset (parliament) has decided to restrict the movements of its most controversial member, Rabbi Meir Kahane, the anti-Arab extremist.

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Egyptian exchange rate system overhauled again

BY TONY WALKER IN CAIRO

EGYPT IS again overhauling its exchange rate system in an effort to eradicate black market trading in its currency and ensure an adequate supply of dollars for private and public sector imports.

sources of deposits had to be verified. Certain banks, starting with those in the public sector, will be authorised to deal with sources of funds outside Egypt such as prominent money dealers in the Gulf.

DKB ECONOMIC REPORT December 1984: Vol. 13, No. 12 Declining interest rates are expected to spur domestic demand in Japan. Although it is premature to conclude that the decline in U.S. interest rates has become a solid trend, the Japanese economy is already feeling some impact of this in the form of an upturning bond market and a firming yen.

Recent Trends in Yen Quotations, Gaps in Japanese and U.S. Interest Rates and Basic Account. A line graph showing trends from 1981 to 1984. The graph plots Yen quotations, interest rates, and basic account data. The Y-axis ranges from -20 to 10. The X-axis shows months from 1981 to 1984.

Arafat meets Hussein on Middle East peace moves. MR YASSIR ARAFAT, chairman of the Palestine Liberation Organisation, said he was in Amman last night after two long sessions of talks with King Hussein of Jordan on possible Middle East peace moves.

Zia plans an Islamic democracy

BY MOHAMMED AFTAB IN ISLAMABAD

PAKISTAN'S President, Gen Zia ul-Haq, plans to hold general elections to establish an Islamic democracy in Pakistan by March 23, 1985, after winning a five-year term for himself and endorsement of his Islamisation policies in last Wednesday's referendum.

He has, so far, refused to spell out in detail the contours of Pakistan's future form of government, which he calls "shoorecraey" (shoor is Arabic for advice or council).

Malik Mohammed Qasim, Nawabzada Nasrullah Khan, and other MRD leaders, called on President Zia to "resign" and "bow to the people's verdict."

KOREA EXCHANGE BANK US\$50,000,000 Floating Rate Notes due 1993. In accordance with the terms and conditions of the above notes, notice is hereby given that for the 6-month interest period from 24th December, 1984 to 24th June, 1985 (182 days), the notes will carry an interest rate of 9.9 1/2% per annum.

Kuwaitis to sell lead-free petrol in Europe

By Maurice Samuelson
KUWAIT Petroleum International, which last year took over 1,500 Gulf Oil service stations in Europe, is to start selling unleaded petrol at 30 within three months 150 will be selling unleaded petrol. KPI, a wholly owned subsidiary of Kuwait Petroleum Corporation, begins sales of lead-free fuel at 30 service stations in Denmark, Sweden, the Netherlands, Belgium and Luxembourg today. It claims that although unleaded petrol has been available locally in a few European countries for some time, it is the first multinational to make it available across a group of countries. Lead-free petrol will not be sold at the Gulf outlets in the UK and Switzerland, which are still owned by Gulf Oil. The unleaded KPI fuel, produced in the Netherlands and Denmark, will be sold under the brand name "9088". The move is a response to the growing belief that lead in petrol, which improves fuel efficiency, is a hazard to human health. KPI estimates that some 25 per cent of cars in Europe can run on lead free petrol, including all Volkswagen vehicles built since 1977. Most other European motor manufacturers are moving in the same direction and many, says KPI, are expected to publish lists of models able to use unleaded petrol early next year.

End of Indian controls urged

INDIA'S import substitution policies and strict industrial controls have outlived their usefulness, Mr Abid Hussain, the Commerce Secretary, said yesterday. Reuters reports from New Delhi. Quality goods could be produced only by free and fair competition. Mr Hussain heads a committee which will present a report on trade policy to the government next week.

Oman dam contract

THE SHAND Group, based at Matlock in Derbyshire, has won a £7m contract to build dams in the Gulf state of Oman, to prevent floods and to conserve water during flash rains. Mr Paul Fryer, overseas marketing manager, said yesterday that work was due to start next month and labour would be recruited in India. The two dams will be supervised by specialist engineers from the Derbyshire company.

Airbus and Pan Am sign leasing deal for aircraft

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

AIRBUS Industrie, the European airliner manufacturing group, and Pan American World Airways have now signed an interim lease agreement enabling 12 A-300B4 and four A-310 wide-body Airbus to be delivered to the airline. The aircraft involved are worth over \$450m. This is the first phase of a complex financing process that eventually will provide Pan Am with the late 1980s with a fleet of at least 75 Airbus (28 A-310s and 50 A-320s) worth over \$2bn. Pan Am's intention to acquire the Airbus was first announced in September, when it

said it intended initially to lease 12 A-300B-4s and four A-310s, and eventually to buy 12 A-310-300s and 16 of the new 150-seat A-320s, with options on another 13 A-310s and 34 A-320s. The first phase of this complex contract arrangement has now been settled, with the interim lease agreement. Four A-300B-4s have been delivered to New York and put into service. The remaining eight A-300B-4s and the four A-310s under the leasing plan will be delivered over the next few months. Commenting on this phase of the deal, Mr Bernard Lathiere,

president and chief executive of Airbus, said the transaction was "complex, entirely financed from commercial sources, and finalised in the shortest time-frame." In Tokyo the Japanese trading company Nichimen said it and Orient Leasing, acting in consortium, would finance the \$100m sale of the four A-300B-4s which have been delivered. The consortium will loan funds to a U.S. investment firm, Wilmington Trust, for 18 years to buy the jets for leasing to Pan American. The loan carries fixed interest for the first five years and interest linked to

Libor with a premium for 13 years. A number of major banks throughout Europe are believed to have been involved in the total package. Speed of delivery has been possible because some of the A-300B-4 aircraft are "white-tails" — aircraft already built but lacking immediate buyers. The deal now agreed is understood to provide for the commercial sources to pay Airbus for the aircraft, and to be reimbursed by the airline. At current Airbus prices, the A-300B-4s are worth about \$25m each, and the A-310s about

\$38m each, putting a total value on the aircraft in the lease deal of about \$450m. It is probable that a substantial provision for initial spares is also involved in the financing package. The A-300B-4s will be used by Pan Am on its internal U.S. routes and to the Caribbean. They each seat 254 — 24 first and 230 economy class. The four A-310s will be used on Pan Am's internal German routes and its European network. They each seat 225 — 18 first and 205 economy class. Airbus says that the second phase of the contract negotiations is now in progress, arranging for the financing of the firm

Australian steel action provokes South Korea

By Steven B. Butler in Seoul
THE POHANG Iron and Steel Company (Posco), South Korea's principal steel producer, has retaliated against Australia's lifting of preferential tariff treatment for Korean steel by scaling back its planned 1985 purchases of Australian coal and iron ore. The conflict raises an issue that goes beyond the immediate dispute over steel duties. More and more countries are beginning to see South Korea not as a developing country that needs preferential treatment, but as an industrial power that can compete on equal terms with other developed nations. The import cut of 150,000 tons of iron ore and 100,000 tons of coking coal is small compared with the company's purchases from Australia of 4.5m tons of iron ore and 2.85m tons of coking coal a year. The Koreans have long asked the Australians to do more to correct a trade imbalance that in 1983 ran three to one in Australia's favour on a total bilateral trade of \$1.3bn. Australian embassy officials described the cutback as "a warning shot across the bow." Australian officials, however, say the imbalance is largely structural: Korea imports large quantities of raw materials from Australia, while Australia's population of 15m provides a market for only a limited quantity of Korean-manufactured consumer goods. The Australian Government allowed Korea steel to be imported on a developing-country-preference basis with the understanding that South Korea would sell only within an allowed quota. Posco, however, sold an equal amount outside the quota, paying ordinary duties on the steel. Australian officials say South Korea's penetration of the market shows it does not need the preferential rates. Officials of South Korea's Ministry of Trade and Industry insist that Posco, which relies on Australia for 40 per cent of its raw materials, acted entirely on its own initiative, and that Government policy is to encourage growth in bilateral trade. Observers believe the Government is concerned that the Australian move could set a precedent.

Jail terms for computer theft in Taiwan

BY ROBERT KING IN TAIPEI

A TAIWAN appeals court has sentenced the heads of six computer companies to six months each in prison for counterfeiting. The sentences may be offset however by a provision of Taiwan law that allows convicted persons under some circumstances to convert jail terms of six months or less to fines at the rate of roughly 23 cents a day. Last February a lower court handed down sentences of eight months each to the six, who were convicted of copying read-only memory, ROM, software registered here by Apple. Those previous sentences would have ensured that the six would have spent some time in jail. Upon appeal, however, the sentences are still not covered by Taiwan's copyright laws and that Apple's registration of its ROM code had no legal force. They also argued that the circuitry containing the offending software had been made by other firms, among them were a Government investment, and that they were being unfairly singled out. The appeal court's decision appears to be a compromise solution aimed at resolving a touchy and unprecedented case without actually insisting that the defendants serve time in jail.

Ireland hopes for microchip investment

BY BRENDAN KEENAN IN DUBLIN

IRELAND'S Industrial Development Authority is said to be confident of securing two major U.S. electronics projects for the country. Advanced Micro Devices (AMD) and Mostek are both said to be planning to locate microchip manufacturing plants near Dublin. Reports in Dublin say the IDA will have to put up almost 120m (£7m) in grants to attract the two companies. The existing Mostek plant has already received one of the highest levels of grant aid given to any single company in Ireland. Wescam, a subsidiary of the U.S. Westinghouse company is also to invest £1.6m to increase

its production of computer terminals in North Dublin. It manufactures computer terminals for airlines, and networking systems for banks and insurance companies. Meanwhile, a leading Hong Kong clothing company, the Fong group, is to invest £4 in a major manufacturing plant in North Dublin to produce a range of clothes. The project, which is being grant-aided by the IDA will create 1,000 jobs in the next two years. The venture will be called uShamrock Apparel, and production is expected to start early next year. Output will be exported worldwide.

U.S. changes rules on textile imports

WASHINGTON —

THE U.S. Commerce Department is to begin limiting the amount of certain textile and clothing products that can enter the country each month, with effect from January 1. Under the new rules, monthly imports of specified products including some categories of cotton, wool and artificial fibres will be limited to 20 per cent of their annual quota each month. The monthly limit will apply to products that reached their quota in the previous year and which may cause market disruption if allowed uncontrolled entry. Under present rules, goods are forbidden entry into the U.S. for the balance of the year once imports reach their full-year

quotas. At the start of the next year, the import ban is lifted. Theoretically the full quota can be shipped in one month disrupting the market and cutting prices sharply. The monthly limits are designed to end disruption by forcing the imports to enter on a more regular basis. In Brussels, the European Community decided to delay until tomorrow a decision on a plan for ending a steel trade dispute with the U.S. France demanded that the deadline on whether to accept new terms for settling the dispute over U.S. imports of steel pipes and tubes made in the Community be extended while it sought firmer exemption assurances.

Why West Germany can ignore its patent exchange deficit

AT FIRST GLANCE the syllogism looks impeccable. West Germany runs a substantial deficit in its international exchange of patents and licences. Such know-how constitutes a touchstone of a country's industrial sophistication. Therefore, the position of West Germany at the technological forefront is in danger. But syllogisms have a habit of being spoiled by false premises. And so it may well be in this case too, if the implications of a comprehensive study on patent flows between the major industrial nations compiled by the German Economic Institute (IWI) are anything to go by. At one level, of course, Europe's biggest economy does look to be doing far less well than it should, worse not only than Britain (which has a small but steady surplus in patent ex-

changes) and France, but also than Italy. Nor does it come as any surprise to learn that the dominance of the U.S.—as indeed in the current distribution of Nobel prizes—is little short of absolute. Since the beginning of the last world war, America has captured more Nobel scientific awards than all other countries put together. Its income from the sale of patents and licences abroad, at \$9.6bn in 1983, was more than double that of the next five most important Western countries, Britain, France, West Germany, Italy and Japan, combined. Expressed another way, the earnings of the U.S. in this field amount to almost 4 per cent of its exports of goods. In the case of West Germany, whose physical exports are now close to those of the U.S., the propor-

tion is just 0.3 per cent. In fact, though, things are less grim than they seem. In the first place, although the West German patents deficit rose by half in absolute terms between 1973 and 1983, it dropped as a share of overall knowhow exchanges from 47 per cent to 33 per cent. In other words, income from the sale of patents and licences tripled over the decade, while expenditure did not even double. Second, the German figures

cover only technical and industrial knowhow. They exclude such items as trademarks and copyrights, areas where the country is strong. But perhaps the most significant finding of the IW study is the strong correlation which exists between capital flows and patent exchanges. As is suggested in the case of Germany, a trading giant but a patents dwarf, patents have little to do with success or otherwise in physical commerce. But their connection with direct capital investments is another matter. The countries to which West Germany pays out most for patents are those which have invested most in West German industry. According to the Bundesbank, 70 per cent of all patent fees are made by subsidiaries of foreign-based parent companies. Not only that, but the break-

down of disbursements for patents mirrors that for foreign investment in West Germany. The U.S. accounts for 42 per cent of patent outgoings, Switzerland 14 and 17 per cent respectively, the Netherlands 9 per cent and 11 per cent. If the foreign subsidiaries, paying for patents from their parents overseas, are left out of the reckoning the picture changes utterly. In that same decade from 1973 to 1983, purely "German" companies more than doubled their patents surplus from DM 243m to DM 577m. "Proof," says the IW, "of the technological capacity of the German economy." Unsurprisingly, of the more narrowly defined patents surplus, the lion's share — or DM 300m — stems from the country's powerful chemical industry, followed at some

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UK NEWS

Power stations to cut oil use despite coal strike

BY MAURICE SAMUELSON AND BRIAN GROOM

SO MUCH COAL has been reaching power stations that the electricity industry is preparing to reduce the amount of oil it has been burning to conserve its stocks of coal.

That decision, made known to Mr Peter Walker, Energy Secretary, by Sir Walter Marshall, chairman of the Central Electricity Generating Board (CEGB), is the strongest evidence to date that electricity supplies are remaining immune to the miners' strike.

It comes as Mr Arthur Scargill, president of the National Union of Mineworkers (NUM), gave a warning that "the Government had better understand that if they do not want the dispute to go on until Christmas 1985 they must allow the coal board to negotiate with the NUM."

Since March 28, three weeks after the strike began, the CEGB has been officially committed to maximising its oil burn, regardless of the huge additional bill that will somehow have to be met when the strike is over.

It has done that so successfully that it is confident that even if the weather suddenly becomes bitterly cold there will be no national power blackouts, or a need for power rationing like that introduced in the three-day working week of 1974.

The CEGB said last night: "We are reviewing the situation the whole time. Obviously, the amount of oil we are burning is directly related to the amount of coal we receive."

The first result of the new policy is believed to have occurred this week, when the low demand for electricity on Christmas Day and yesterday enabled the CEGB to make less use of its large oil-fired stations on the Thames and the south coast of England and proportionately more from the coal-fired power stations near the Nottinghamshire coal field, where most miners are working.

Jaguar in European dealer shake-up

By Kenneth Gooding, Motor Industry Correspondent

JAGUAR will start 1985 with a shake-up of its European distribution system outside the UK which is intended to increase its luxury car sales in continental Europe from about 4,000 to 10,000 by the end of the decade.

The company, which was sold back to the private sector by BL last August, has appointed new importers in Belgium, Luxembourg, Ireland, France, the Netherlands, Italy and Spain which will between them invest up to £10m in Jaguar's future.

Jaguar expects that at least a quarter of its 350 dealers in continental Europe will give up the franchise in the immediate future because they will be unwilling or unable to meet the higher standards of sales and service demanded. By the end of next year, only about half of the existing dealers are likely to remain.

Jaguar will not be giving any "golden handshakes" to departing dealers as it has in the U.S., where a similar reorganisation was started earlier this year. In the U.S. the 30 dealers (out of 186) asked to quit were offered \$5,000 for each car they would have been allocated in the 1984-85 sales year. Some have not agreed to the terms and litigation is pending.

The changes Jaguar is making in Europe are the final stages of a scheme to separate its distribution system from that of Austin Rover, its former stakeholder within the state-owned BL group. From next month the two companies will have split their import-distribution business everywhere except in Portugal.

Jaguar has already revamped and strengthened its dealer networks in the UK. Earlier this year it started a strategic thrust into West Germany, home of its main rivals in the luxury car market.

Jaguar Deutschland began operations in January with a capital of DM 6m (about £1.6m), 35 per cent supplied by Jaguar and the majority by the Emil Frey group of Switzerland. The new company immediately served notice on 50 dealers and estimated it would have to dismise 60 of the remaining 90. Those who stayed on performed so well that 1984 Jaguar car sales were about 2,000 compared with 1,300 last year.

Mr Johnson says Jaguar aims to capture 10 per cent of the West German luxury car market by 1990.

Non-Opec producers 'to meet 2% rise in Western demand'

BY ANDREW GOWERS

OIL DEMAND in the Western world is likely to average 47.1m barrels a day (b/d) between now and next June, an increase of nearly 2 per cent over the estimated average this year.

All the increased demand, however, is likely to be met by increased production from the UK and other non-Opec sellers of oil, according to stockbrokers Grieve & Grant. They estimate that average output from producers outside Opec including net exports from the Communist bloc, is likely to increase to 27.6m b/d by next June from 27.1m b/d at the beginning of October 1984.

In its latest Opec comment, Grieve & Grant estimates that oil companies are currently unloading

stocks at a rate of 3m b/d, possibly bringing the free world's oil stocks down to the equivalent of 70 days' supply.

It suggests that de-stocking may be on the increase, as a result of relatively high government stocks and the ready availability of oil on the spot market.

The analysis says decisions by the British Government in coming weeks will be crucial to the oil market, and emphasises that the UK authorities need to clarify their position.

Among options open to the Government, it says, are:

● Retreating from the market and letting the industry determine the price. That, the report says, would result almost certainly in a significant

deterioration in relations between the UK and many Opec members.

● Scrapping the British National Oil Corporation (BNOC) and fixing prices directly with the big North Sea oil companies, which might lead to even more volatile spot market prices.

● Imposing production controls. Grieve & Grant favours that option, although it acknowledges that it would be opposed by oil companies and would entail a significant change in government policy.

There is one overwhelming factor behind the need for production restraint - the failure of the UK in recent years to replace proven reserves at current rates of output," it says.

British Airways to increase Concorde use

By Michael Donne

CONCORDE is proving increasingly popular and profitable for British Airways (BA) and the airline is planning to use the aircraft more during the coming year.

An extension of scheduled services is under study, although no early decisions are likely. One possibility is that when BA takes over the South American network from British Caledonian in April, a resumption of Concorde services to Rio de Janeiro and Caracas may become possible.

Air France used to fly Concordes to both destinations from Paris, but suspended them for lack of traffic.

Concorde charters will be substantially increased next year. Already 185 charter contracts are booked and that is expected to rise. Over the past year, 170 charter contracts were fulfilled, although at the beginning of the year only 100 had been planned.

The charters vary widely, from a few hours round the Bay of Biscay for clubs and other organisations to flights across the world. One charter on Christmas Day went to Lapland. Among organisations making regular use of Concorde is Cunard.

The airline declines to give precise figures for Concorde revenue, but it is believed to be well over £12m a year and that the aircraft generates profits.

Rise in spending 'main impetus for growth'

BY PHILIP STEPHENS

CONSUMER SPENDING will provide the main impetus of economic growth next year, rising by about 3 per cent in real terms compared to 1984, according to independent forecaster Staniland Hall.


The projected increase, which would follow growth of 2.3 per cent this year, will be fuelled by the continued buoyancy of real incomes and an expected end to the miners' strike, the company says in its latest review of spending patterns.

It predicts that the spending will be spread broadly throughout the

different consumer sectors, with the strongest growth coming in sales of cars and electrical goods.

Spending on cars, which fell by an estimated 5 per cent in 1984 after the surge last year, is forecast to rise by 6 per cent in 1985, while outlays on electrical goods are expected to continue to grow by about 5 per cent.

Other sectors that will benefit by more than the average include clothing and footwear, and wines and spirits, Staniland Hall says.



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250 North Street, B.A.7N
White Plains, New York 10625
U.S.A.

Attention: Alan M. Shaver, Esq.
Corporate Secretary

Dated: December 27, 1984
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NOTICE IS HEREBY GIVEN that pursuant to Paragraph 5 of the above-described Notes (the "Notes") and the provisions of the Fiscal and Paying Agency Agreement dated as of January 15, 1981 under which the Notes were issued, GTE Finance N.V. has elected to redeem all of the outstanding Notes on January 29, 1985, at the redemption price of 100 1/2% of the principal amount thereof, together with accrued interest to January 29, 1985.

On January 29, 1985, the Notes will become due and payable as aforesaid in such coin or currency of the United States of America as at the time of payment shall be legal tender for the payment of public and private debts. The Notes will be paid, upon presentation and surrender thereof together with the coupon appertaining thereto maturing after the redemption date (falling within the amount of any missing, unissued coupon will be deducted from the sum otherwise due for payment), at the option of the holder either (a) at the corporate trust office of Morgan Guaranty Trust Company of New York, 30 West Broadway, New York, New York 10015 or (b) subject to any applicable laws and regulations, at the main offices of Morgan Guaranty Trust Company of New York in London, Brussels, Frankfurt/Main, Paris and Zurich and at the main office of Banque Internationale à Luxembourg S.A. in Luxembourg. Payments at the offices referred to in clause (b) above will be made by a United States dollar check drawn on a bank in New York City or by transfer to a United States dollar account maintained by the payee with a bank in New York City. Any payment made within the United States, including payments by transfer to an account maintained by the payee with a bank in the United States, may be subject to reporting to the United States Internal Revenue Service (IRS) and to backup withholding of 30% of the gross proceeds if payees not recognized as exempt recipients fail to provide the paying agent with an executed IRS Form W-8 in the case of non-U.S. persons or an executed IRS Form W-9 in the case of U.S. persons.

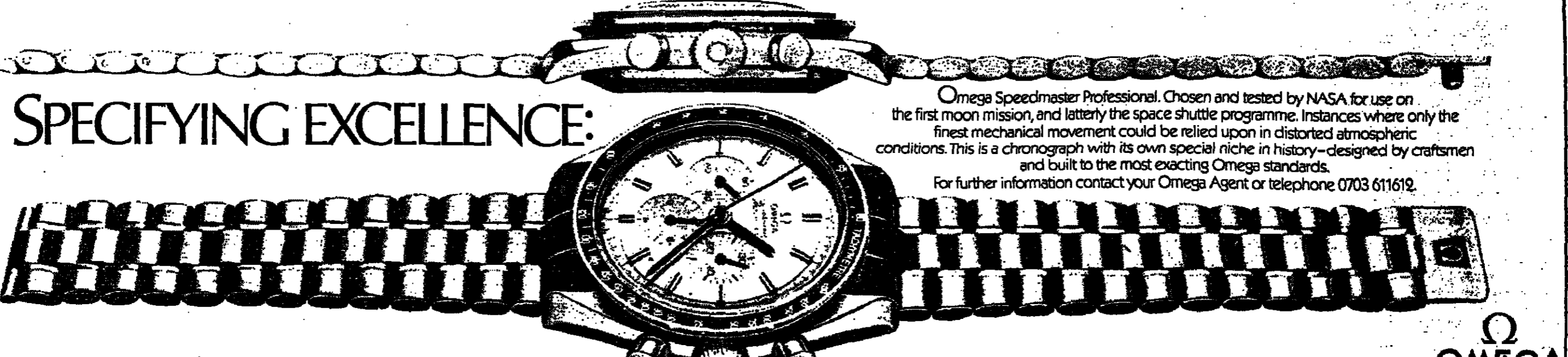
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GTE Finance N.V.
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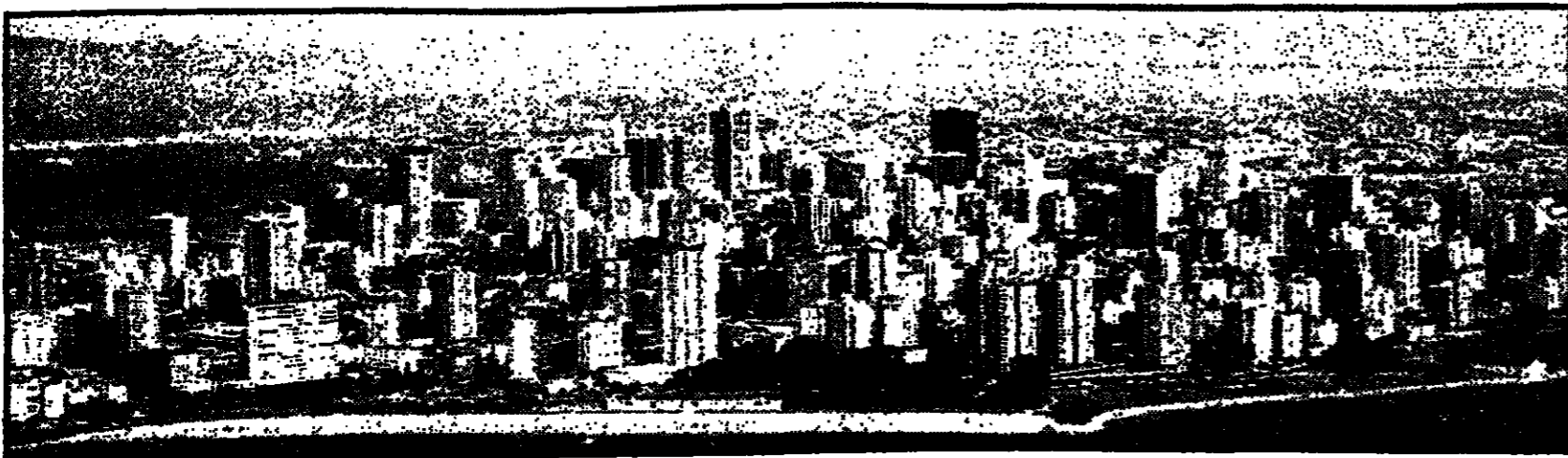
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The Vancouver skyline

Bernard Simon on development activity in Canada's most western province

Vancouver: A city poised for recovery

VANCOUVER property developers appear to be defying the laws of supply and demand. At a time when one in every five offices in the city stands vacant, and landlords are offering prospective tenants up to six months free rent plus furnishing, new office construction is at record levels.

But the Canadian, British and Far East investors putting up the lower blocks may turn out to be shrewder than they seem.

They have chosen to locate their products in a corner of North America untouched by the economic recovery of the past two years, taking advantage of plentiful materials, keen competition among suppliers and usually moderate labour costs. In addition, the new buildings may be ready for occupation just as the economy of western Canada begins to catch up with the rest of the continent again.

Some observers already believe that the clouds of gloom which have enveloped British Columbia, Canada's most westerly province, are about to lift. Mr James Matkin, president of the local Business Council representing BC's employers, argues that "things have to get really bad before they get better." In British Columbia's history, "we're right at that mark."

Low commodity prices, labour strife and a harsh austerity programme imposed by the provincial government have ravaged business and consumer confidence for the past three years. While the rest of north America has basked in an economic recovery, British Columbia has suffered negative real growth for two years out of three, with a meagre advance of 1.5 per cent in 1983. Unemployment remains close to 15 per cent.

The Vancouver Food Bank, formed in late 1982 to provide groceries to needy families, this month raised the number of parcels it distributes from 2,500 to 3,000 a week. A long line of recipients queuing outside the city's Anglican cathedral each Wednesday morning is a stark contrast to the gleaming office blocks and hotels around them.

British Columbia can probably claim the poorest labour relations record in north America. Stoppages in the past 12 months alone have shut pulp and paper mills — the backbone of the economy for 10 weeks, halted Vancouver's bus services

for most of the summer and kept the city's main daily newspaper off the streets for a month.

The economic slump is mainly the result of depressed prices for lumber and mineral products which make up the bulk of the province's exports. Exports in turn account for over a quarter of total output.

British Columbia forest products companies have lost an estimated C\$1.5bn (£954m) in the past three years, while the mining industry has suffered losses of close to C\$400m. Fifteen mines have closed, and Japanese steel mills are keen to renegotiate prices and volumes with the large new local producers in north-eastern BC.

Hard-line policies of the right-wing provincial government headed by Mr Bill Bennett have further dampened economic activity and fanned trade union anger. Espousing a policy of short-term pain for long-term gain, the key word has been restraint; the Government has cut education, health and social services, laying off several thousand civil servants. Initially supported by employers, Mr Bennett has more recently antagonised business by imposing a number of hefty tax increases.

Macmillan Bloedel, Canada's biggest forest products group, warned in its latest quarterly report that high wage rates, taxes and logging costs in British Columbia have put it in a position "that cannot be sustained if the company and the entire integrated coastal forest products industry are to remain competitive in the international marketplace."

Macmillan Bloedel and others have responded by diversifying outside the province. Another Vancouver-based group, Finning Tractor, has bought two of Caterpillar's three dealerships in Britain during the past 18 months.

The best hope for British Columbia in the short term would be stronger commodity prices. But even in the absence of a minerals and foreign products boom, a number of initiatives are under way which may have a significant bearing on the future of western Canada, and BC in particular.

Canada's new federal government, headed by Mr Brian Mulroney, is reopening the controversial issue of free trade between Canada and the U.S., the world's two biggest trading

partners. No one yet knows whether, when or how a recent series of talks between Ottawa and Washington on free trade in four specific sectors (including urban transit equipment and special steels) will be expanded. But public opinion throughout Canada appears to favour some broadening of these discussions.

Freer trade between the two countries is the spur that British Columbia needs to diversify its economy. For example, in spite of vast timber resources, a furniture industry has so far failed to materialise. Conversely, local businessmen think that a relaxation of Canadian curbs may encourage an influx of foreign financial institutions of Vancouver.

One big obstacle to the federal government negotiating better access for western Canadian products to the U.S. market is the effect of reciprocal concessions that would have to be made to American manufacturers upon the industrialised provinces of Ontario and Quebec. Jealousies between Canada's 10 provinces arising from their divergent economic interests are among the factors which have thwarted progress towards trade liberalisation in the past.

Within British Columbia, the provincial government has begun to recognise that initiatives are needed if the province is to attract investment and capitalise on the window to the Far East which it shares with the west coast states. Mr Bennett said in an interview that his main priority now is "to broaden the economic base in the areas of manufacture and exports. Our economy can only be built on exports."

South-east Asia has already displaced Europe as western Canada's main trading partner. Besides Japanese investment in the north-eastern BC coal mines, Far East interests are increasingly active in the Vancouver property market. Hong Kong investors earlier this year bought the province's largest shopping mall in suburban Vancouver.

Mr Bennett, who has himself visited Japan and China in the past year, has instructed his ministers to step up their foreign travel in a bid to generate trade and investment. In addition, the provincial government is working on what Mr Bennett calls an "industrial encouragement package" to

revive business confidence and attract more secondary industry. The plan, likely to be unveiled next February, will probably include tax cuts. If the province can persuade Ottawa to agree, it will also set up Canada's first duty-free processing zones.

To make zones even more attractive to business, the Bennett Government has hit on the idea of exempting them indefinitely from collective bargaining legislation, thus insulating them from BC's high labour costs and heavily unionised workforce.

The plan has infuriated trade unionists, but there is little they can do to stop it. The recession has severely weakened and divided the union movement. Membership of the International Woodworkers of America in British Columbia has plunged by almost 30 per cent since the onset of the recession, several of the new projects in downtown Vancouver are being built with non-union labour—one way in which the developers are able to hold down construction costs.

A deep split has opened up between moderate private sec-

tor unions whose members are hardest hit by redundancies and wage cuts, and more militant public sector groups like teachers.

In spite of the rash of stoppages in key sectors of the provincial economy this year, there are signs that industrial unrest is abating. A planned lock-out of railway workers, which would have crippled coal and lumber exports, was averted at the last minute earlier this month. The most noteworthy event organised recently by Operation Solidarity—formed last year to fight the Bennett government's presentation policies—has been a picnic.

The question is how long a truce on the labour front will last. Political loyalties are more sharply defined with a higher ideological content in British Columbia than anywhere else in Canada. A senior official of the International Woodworkers warns that when the province's economy turns up again, unions will waste no opportunity to get even with the Bennett government and big business.

Japan looks to Expo '85 to save planners' dream

Richard Tomkins tells of a sea of mud destined to become a city of steel and glass

THE BODY of New Orleans' bankrupt Expo '84 may not yet be cold, but already the countdown has begun to the opening next spring of the 1985 world's fair in Tsukuba, Japan.

Out of a 250-acre sea of mud 85 miles north-east of Tokyo a futuristic mini-city of steel and glass, computers and robots, screen images an escape rides, is beginning to emerge. Japan is investing Y570bn (£1.9bn) in the venture, much of which will never be recouped. The Government will regard the money as well spent, however, if the exposition succeeds in injecting new life into Tsukuba Science City, an artificial town designed to be the scientific capital of Japan, but which has yet to live up to the planners' dreams.

Tsukuba Expo '85 will be essentially a science fair, but aims to present technology with a human face. It goes by the subtitle "Dwellings and Surroundings: Science and Technology for Man at Home."

It will open on March 17 for six months and the organisers are hoping for 20m visitors who, perhaps, 5 per cent of them coming from overseas. Among the attractions will be Sony's Jumbotron, the world's largest television set with a screen the size of four tennis courts; the Fuyo robot theatre, where visitors will be invited to play games with the robots; a giant tomato tree bearing about 10,000 tomatoes, which will be grown by guiding sunlight into its pavilion through optical fibres; and the world's largest ferris wheel, taking passengers to the height of a 25-storey building.

The stated aim of Expo '85 is to allow different nations to share the science and technology associated with their different cultures and to examine how scientific progress can be adapted to the environment and enrich people's lives. Its origins, however, lie in a

more practical question: how to revitalise Tsukuba Science City, a new town in a no-man's-land that has never really taken off.

Tsukuba (pronounced "tsu-bu") was born in 1963 out of Japan's fears that its industrial and technological successes could fizzle out unless more was put into basic research. "High on innovation" was the common criticism of Japan and the government wanted to counter it.

The result, Tsukuba Science City, was an attempt to gather the country's top researchers together in an atmosphere where creative ideas might blossom, and simultaneously to promote decentralisation from overcrowded Tokyo.

Most of the country's research establishments have been transferred to Tsukuba—about 50 are there now—and a university has been built. The new academic core of the city is surrounded by six older towns and villages whose presence is intended to balance the specialised centre.

Whatever contribution Tsukuba may have made to Japan's research capability, it has not proved popular to live in. The core of the city was designed to hold 100,000 residents by 1990; it is still less than a third of the way there.

For such a bold investment in the future of Japan, Tsukuba has been singularly lacking in impact. An Expo official said that probably 90 per cent of people in Japan had never heard of the science city and the 10 per cent

who had would not know where it was.

The Government hopes siting Expo '85 at Tsukuba will give the city the shot in the arm it so badly needs. Among the spin-offs from which it stands to gain are national and international publicity, new hotels, restaurants and roads, and an expressway to Tokyo.

One of the biggest obstacles to the development of Tsukuba—and one of the main difficulties which the Expo organisers have to face—is the city's inaccessibility. The nearest railway station is more than half-an-hour's drive away and up till now there has been no direct road link with Tokyo.

To cope with the expected influx of visitors to the fair a temporary railway station 8 miles from Tsukuba is under construction and fleets of buses will connect it with the Expo site. The Tokyo expressway is due to open by March.

The other main difficulty faced by the organisers is the lack of accommodation. They say that Expo visitors will need three days to see everything properly. However, by next spring there will still be only 22,000 hotel or guest house beds within 20 miles of Tsukuba and a large proportion of these will be taken up by site personnel.

The organisers have set their sights high in aiming for an attendance of 20m—a sixth of the population of Japan. Nevertheless, they naturally want to avoid an expensive flop and they are working hard to achieve their target with an intensive publicity campaign. If it succeeds, Tsukuba's resources of transport and accommodation are clearly going to be severely stretched.

As one observer put it, the two biggest problems which Tsukuba faces are first, that it won't attract enough people to the Expo, and second, that it will.

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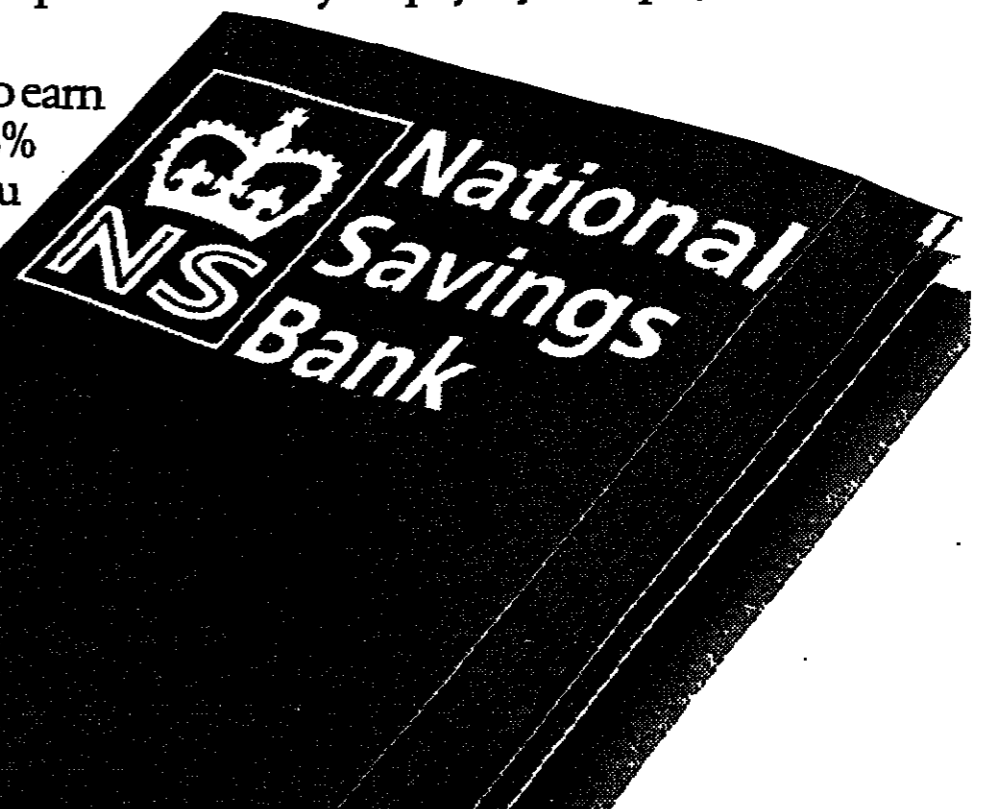
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THE ARTS

Television in 1984/Christopher Dunkley

A good year for ITV... but trouble for BBC

In television 1984 was the year of India and George Orwell, of Torvill and Dean, of Jesus doubters and incest, of the Olympic Games and all those other games — more game shows than ever before on British television. It was also the year which saw the deaths of five men, each with a unique sense of humour: Reggie Bosanquet, Tommy Cooper, Eric Morecombe, John Benjamin and Leonard Rossiter. Each contributed importantly to television during its formative years and for that reason if no other the medium is never again likely to lose five people of such significance in such a short time.

For most of the year commercial television seemed to find the going easier and easier while the BBC felt that life was more and more difficult. Yet again the ITV companies were inundated with record income as demand for advertising time outstripped supply. This was the real reason why the advertising agencies launched a campaign demanding that the BBC should be improved by the insertion of commercials for lager and fish fingers but because they were desperate to break ITV's monopolistic hold on television advertising rates.

As it happened there was, towards the end of the year, the first major declaration for a long time in what had come to seem the inexorably increasing flow of cash into the ITV companies. A shiver of shock and foreboding ran through the ranks, but there was plenty for the ITV people to hang onto: the Government had already promised that they would not be considering the idea of BBC advertising for at least one more licence period, so there was no immediate threat from that quarter. ITV audiences remained larger than the BBC's; and in the latter half of the year ITV programmes were winning not only ratings at home but many prizes abroad.

Best of all, Independent Broadcasting Authority seemed to be changing its ideas and lining itself up solidly with the companies.

When the media sociologists of the third millennium come



Peggy Ashcroft in "The Jewel in the Crown," the television event of the year, and George Cole and Dennis Waterman in "Minder," which worked right to the end



Admittedly on the only major occasion during the year when the IBA was obliged to take a hand in deciding whether controversial programmes should be screened they did not come down on the side of permissiveness, but then these were programmes about trade unionism called *Questions of Leadership* made by Ken Loach and conveying the message that some trade union leaders stood well to the right of certain rank and file members. They have still not been broadcast.

Furthermore it would be wrong to imply that the general influence of the Thatcher Government was towards greater freedom of choice for the ordinary viewer. On the contrary, the "Bright Bill" which became the "Video Nasties Act" during 1984 was the most extreme piece of legislation ever passed to control what we may and may not see in our own homes. Carried through on a wave of sentimentality largely concerned with what other people's children might get to in homes belonging to friends with irresponsible parents, the new law did the opposite of

contempt poured upon it, especially by one government minister's wife whose judgment was so scathing that, in January, an entire campaign was launched by the Tories suggesting that the BBC might be left to whistle for an increase in licence fee. This month that threat has become all too topical again.

The only other drama serials of note during 1984 were *The Boat*, shown on BBC2 in the autumn, a sympathetic account of life aboard a U-boat which was another import, this time from Germany; *Shroud For A Nightingale* in which Roy Marsden again played P. D. James's detective Adam Dalgliesh for Anglia Television; *The Invisible Man*, proving that the BBC can still make excellent classic adaptations for family viewing (though that was never in much doubt), and, starting yesterday, BBC1's *Miss Marple* which showed that Agatha Christie can be done superbly well on television; you just keep your tongue in your cheek.

In the most different field of drama we saw what was to be the last batch of *Minder* from

Thames Television's subsidiary Euston Films, and the magic — which was no magic but the application of well known principles concerning the use of film, good writers, directors and editors, and a brilliant bout of initial casting — worked right to the end.

ITV's *Auf Wiedersehen, Pet* about a gang of British building workers who find jobs in Germany, won some praise and reasonable ratings but to me it always seemed to be trying too hard to match a formula. It was difficult to avoid the feeling that somebody had told the makers: "Remember *Boys From The Blackstuff*, hang onto the social awareness and play up the comedy." *Hill Street Blues*, which came from the U.S. and was switched late in the year from peripatetic appearances on ITV to a regular slot on Channel 4, was also clearly, working to a formula but supremely successful one. The mixture of realism, social concern and high drama, all set in a busy police station. Though that may sound too studiously clever by half it worked wonderfully well.

It was yet another of those years, they are now the rule, when drama serials and series outshone the single plays. The one outstanding single production, *Threads* for BBC 2, was memorable at the year's end not for its acting or direction but for its subject matter: a nuclear war wiping out Sheffield. London Weekend offered a pleasant surprise which had been sitting for years on the shelf, including *Grand Duo* with Judy Parfitt and Prunella Scales playing a pair of middle class pianist/wives who broke out of their comfy shell and sang *Weekend* in which Brenda Blethyn again showed that girliness can be a fine art. Channel 4's *est fieu* a brave but lonely banner for non-naturalism with its stylised studio production of a cockney "West Side Story."

Good comedy was again in dreadfully short supply. At the start of the year *Alas Smith and Jones* reminded us of what we lost when Noel and Joan O'Keefe finished, and although *A Kick Up The Eighties* offered scope to Robbie Coltrane, one of the most versatile comedians to appear for years, the programme really wasn't in the same class as *Monty Python or NTNOCN*. Unfortunately Central Television's *Spitting Image* did not quite work either, though the idea of using Luck and Flaw's puppets seemed such a good one.

After the usual numerous launches the only one which stays in the mind is *Thames's Fresh Fields*. In selecting the mid-life years of a marriage as his subject John Chapman was not starting original — every one seemed to be doing the same and the screen was awash with ageing parents trying to rid themselves of overgrown children. But *Fresh Fields* starred Julia McKenzie and Anton Rogers who worked remarkably well together.

Documentary series were again very strong. If one were making awards this would be the most difficult category, the contenders including *Chanel 4's* China series *The Heart Of The Dragon*; ITV's fearful warnings about the razing of the rain forests, *Decade Of Destruction*; BBC1's lighter but fascinating series on partnerships, married and otherwise, *The Other Half*; *Thames's* powerful mafia series *Crime Inc*; and Granada's re-creating of the past in the end of the honours would be split between BBC1's *The Living Planet* in which David Attenborough again proved himself one of the true masters of this

David Murray starts a series of reviews of the year's concerts by our music critics
Calendar of riches which failed to produce a highlight

1984 wasn't a musical year that I shall remember, and yet it had a real *embarras de richesses*. It simply happened to lack any memorable festival or cycle of concerts — within range of me, anyway — that would give it a mental date-stamp.

The nearest thing to it was probably Jorge Bolet's lunchtime series for the City of London Festival, a generous opportunity to appreciate a master-pianist in a wide repertoire.

The most ambitious composer-oriented London "festivals" didn't quite work. Claudio Abbado's Beethoven cycle with the London Symphony, eminently serious, was chiefly distinguished by fine readings of particular movements; symphonic wholes obstinately refused to emerge, though Maurizio Pollini set an imperial standard for the Emperor Concerto. The London Sinfonietta's Ravel/Varese homage didn't match their own standards in previous expeditions; putting Ravel's

piano and chamber music and songs in the hostile acoustic of the Royal Opera, but staging *L'Heure espagnole* in the Festival Hall, was proof a priori that things had gone off the rails. The conductor David Atherton was brilliantly assured in *Varese*, and gave us a *Daphnis* of quite unexpected grace and rhythmic subtlety; but a Ravel "festival" should have explored the posthumous discoveries more assiduously, and shouldn't have included so many performances plainly inferior to what seasoned Ravelians can do.

Without any special musical theme, the Edinburgh Festival still had its moments; a pall was cast, however, by the miserable size of the audiences for major events. The Bath Festival, much more thoughtfully planned (by chapter and verse on the last time), expects you to stay for longer than I could do: I heard tantalising snatches of its featured composer, György Kurtág, and magnificent Schubert by

Brendel and by the Endellion Quartet with Steven Isserlis. The amiable Spring Festival in Kurtág's home town, Budapest, was innocent of any serious planning at all, despite an abundance of musical talent.

With that, I'm reduced to cataloguing performances that I admired especially. A good Prom season included John Eliot Gardiner's marvellous re-creation of the Monteverdi *Vespers* in Westminster Abbey, and a continuation of the happy Mozart collaboration between Murray Perahia and the English Chamber Orchestra, and Felicity Lott's easy, glowing account of Strauss's *Last Songs*. (South Bank Summer Music this year offered a thin menu and no real competition.) Among visiting orchestras the Warsaw Philharmonic under Kazimierz Kord did wonders with Rakhmaninov's 2nd Symphony, and Lawrence Foster's notably stylish programme with the Monte Carlo Philharmonic was crowned by Ravel's two-hand

concerto (Tamas Vasary in superlative form).

Rakhmaninov's *Vespers* made a great impression in James Wood's performance with the New London Chamber Choir, an handsome French music enjoyed finely idiomatic treatment from Brighton's Fauré Requiem under Andrew Litton, an ECO concert with Michael Tilson Thomas, Fauré's First Piano Quintet with the Fitzwilliam Quartet with Allan Schiller, and — above all — Cécile Ousset's faultless playing in concertos by Franck and Saint-Saëns. Visiting with their new conductor Skowroczewski, the Halle Orchestra offered an elegantly light Beethoven Seventh that matched Masur's with the Royal Philharmonic; the Halle is evidently in top condition.

Wanda Wilkomska displayed absolute authority in Rakhmaninov's First Violin Concerto with them. Another extraordinary violinist is Augustin Dumay, whose Wigmore recital

Arts Guide

Exhibitions

TOKYO
Ceramics of East and West (Idemitsu Art Gallery): This exhibition highlights 17th and 18th century fine ceramics in Japan and Europe, including Japanese Arita ware, Delft from Holland and Meissen from Germany. Particularly interesting is the influence of these various wares on each other, the result of trading of the period. Shards of Chinese and Japanese pottery excavated outside Cairo are also on display. This museum, on the 9th floor of the Kokusai Building in Shibuya, runs Imperial and Palace Hotels, commands an excellent view over the Mount and Emperor's Palace in the centre of Tokyo. A relaxed atmosphere enhanced by the serving of Japanese tea. Ends Feb 3.

PARIS
The Influence of French and Italian schools and fidelity to their national inspiration, the fascination with reality and romantic idealism, produced two contradictory tendencies in German painting in the second half of the 19th century. On the one hand, Arnold Böcklin, the symbolist continues to meditate and dream of poetry and mythology. On the other hand the violence of colours of the New Realists announces 20th-Century Expressionism. Petit Palais, closed Mon, Ends Jan 13 (205-1470).

LONDON
The Hayward Gallery: The Drawings and Sculptures of Mattioli. The Arts Council has brought together two major exhibitions, each of which deals with a major aspect of Mattioli's work. But through both are to be seen the artist's drawings, sketches and paintings. He is not to do so as one which makes their London showing an opportunity not to be missed. The entire sculptural oeuvre is shown, 69 bronzes in all (it goes to Leeds in the New Year), for the first time in this country; and the selection of drawings represents the largest retrospective study ever to be seen in London or New York (it goes to the Museum of Modern Art in the spring of this year).

BRUSSELS
BBC exhibition on radio services and television including the French service and world service. Hotel de ville. Ends Jan 5.

NEW YORK
Museum of Modern Art: Primitivism in 20th Century Art has much modern work by Picasso, Max Ernst, Braque among many others as well as striking tribal objects from Asia, Africa and North America, but the theme itself seems

meant to fill space more than provide a better understanding of the primitives or the moderns. Ends Jan 15.

CHICAGO
Museum of Contemporary Art: Celebrating the foresight of local collectors. Dada and Surrealism in Chicago Collections includes more than 300 works by Dalí, Ernst, Magritte, Miró, de Chirico, in mixed media including sculpture and photographs as well as paintings and drawings. Ends Jan 27.

WASHINGTON
Hirshhorn: The entire third floor of the gallery will be filled with 157 works of painting, sculpture, constructions and installations done in the past decade by 147 artists in celebration of the museum's 10th anniversary. Ends Jan 8.

VIENNA
Fanny Elssler: This charming exhibition already shown in New York celebrates the dazzling career of the 19th century Viennese ballerina who died 100 years ago. Fanny Elss-

ler, daughter of Haydn's valet, took Europe and America by storm in the 1840s — and broke a few hearts on the way. Costumes, posters, letters and other memorabilia evoke a beautiful and talented woman. Opera House. Ends Dec 30.

WEST GERMANY
Cologne, Kunstverein, 1. Josef-Haubrich-Hof: Works by Helmut Dorner, Lutz Fritsch, Clemens Klotzsch, Axel Lieber, Mechthild Nemczek, Peter Tellingmann and Claude Walz. Ends Jan 8.

Mannheim: Städtische Kunsthalle, 9
Moltkestrasse: a retrospective of Robert Häusser with 150 black and white photographs from between 1911 and 1964. Ends Jan 6.

Hamburg: Glockengießerwall: Fifty-five paintings, water colours and gouaches by Edward Munch, the Norwegian painter (1863 to 1944). Ends Feb 2.

Hannover, Forum des Landesmuseum: 2 Am Markt: Berlin Art between 1770 and 1830 has 200 bronzes, gypsum, ceramic and china sculptures by artists ranging from Gottfried Schadow to Georg Kolbe. Ends Feb 17.

Düsseldorf, Kunstverein and Kunst-
halle 4 Grabbeplatz: Russian and Soviet Art — Tradition and the Pres-

ent links the time of old Russian icon painting to today's contemporary approach with the help of 300 works of art. This is the most comprehensive show of Russian art presented in the Federal Republic. Ends Jan 27.

Mannheim, Sculpturmuseum, Creller Platz: Sculptures, drawings and graphics by Henry Moore depicting mother and child. The works include all his efforts to deal with this subject since 1922. Ends Jan 13.

Mannheim, Villa Staack, 60 Prinzregenten-
strasse: 60 coloured drawings from between 1880 and 1917 by Gustav Klimt, the Austrian chief protagonist of Viennese Jugendstil. Ends Jan 27.

ITALY
Venice: Museo Correr. Drawings by Gian Antonio and Francesco Guadri, a delightful exhibition of 250 drawings by the brothers, including, among the subjects, the famous views of the city by Francesco. (Closed Tues.) Ends Jan 31.

Rome, Braccio di Carlo Magno. Raphael in the Vatican: the last in a series of exhibitions which have been held in Paris, Rome, Florence and Urbino, marking the 5th centenary of the painter's birth. The exhibition contains material from the secret archives, the Vatican Library and the Papal apartments, and is a wonderful chance to see objects not usually on public view, and the details of inaccessible frescoes. Until Jan 28.

Milan: Galleria Castaldelli, Via Lanza
6. Drawings, watercolours and oils by Renato Guttuso. Until Dec 30.

Naples: Museo di Capodimonte: 'Naples in the 17th Century:' for lovers of Baroque. An eminent exhibition of paintings, sculpture, silver and furniture dating from a period when the city was the second in Europe after Paris. Ends April 14.

Rome, Villa Medici (French academy): Degas and Italy. A gracious recognition by the French Academy of the importance of Italy to the work of one of the greatest artists of the 19th century (this year is the 150th anniversary of Degas's birth). The exhibition follows Degas's principle that preparatory drawings should be shown with the finished work. This has been done here with three remarkable paintings: the portrait of the Bellelli family (with its echoes of Piero Della Francesca). The works cover the period 1856-80. Ends Feb 10.

Rome, Galleria la Grediva (Via della Pace 5): 17th-Century Italian painting including Guadagnoli, Caracci, Annigoni, Rosai, Ballo. Ends Feb 10.

Rome, Galleria Giulia (Via Giulia 148): Max Ernst drawings organised in collaboration with the Goethe Institute. Ends Jan 18.

NETHERLANDS
Amsterdam, Allard Pierson Museum: Similar But Different, an exhibition marking the archaeological museum's 50th anniversary, is devoted to daily life in Egypt, from 3500 BC to 600 AD. Not grandeur, then, but mystery, as the visitor is led through a series of small rooms (now a re-creation of an Egyptian interior) displaying everyday objects, del-

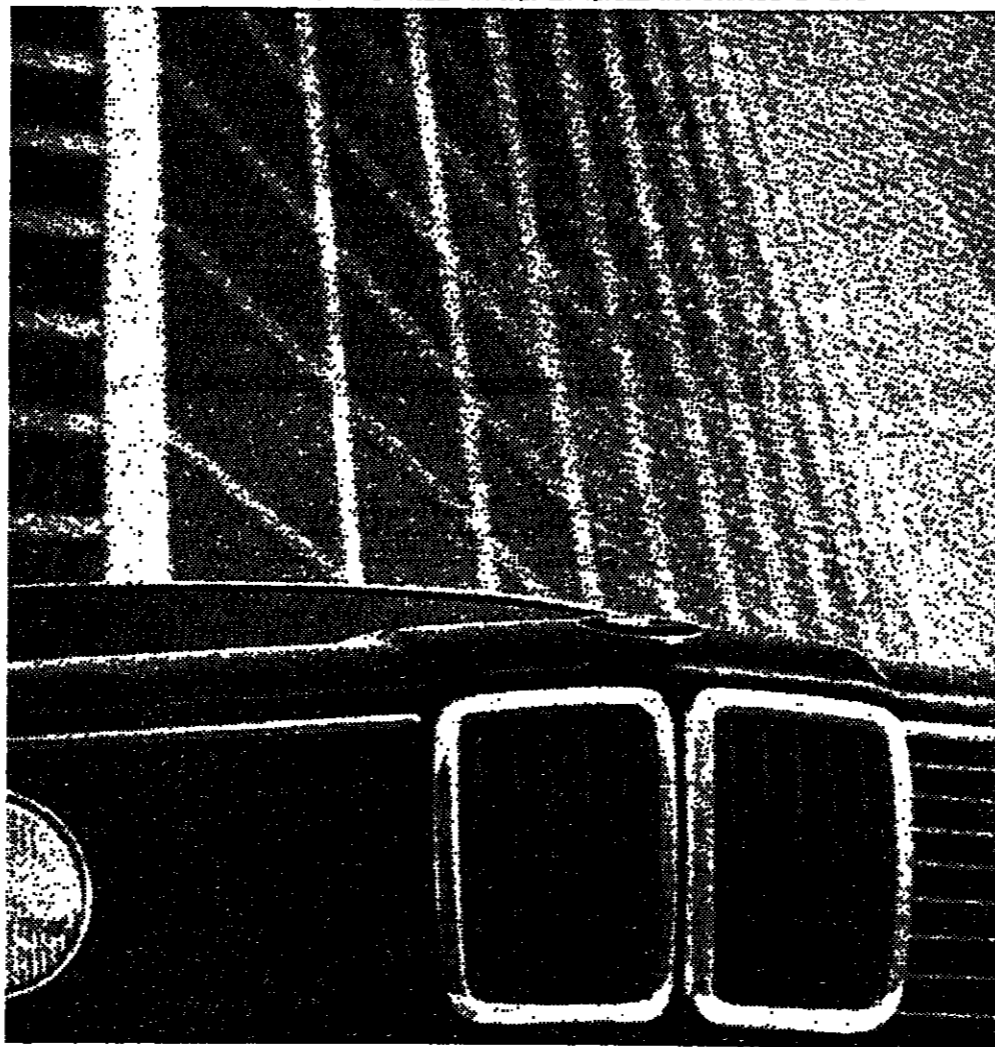
Which international movement was one of the most successful again in 1984?

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1984 was yet again a year of extraordinary success for BMW. Following many exceptional years, another one of significant growth. And this was achieved despite the setbacks created by the weeks' long strike in the Federal Republic. As the result of a singleminded and concerted effort in both the domestic and export markets, BMW succeeded in regaining much of the lost ground and, with a total of 430,000, succeeded in producing and selling more cars than in the previous year. At the same time, the company's turnover has risen yet again, to over 16 billion D-Marks. And 1,500 new jobs have been created, even though - for strike-related reasons - this didn't quite match forecasts.

The world's most demanding drivers profit by BMW. And BMW by them. BMW's positive results can be related, not least, to the enormous vote of confidence given by the large number of new buyers, who have felt that the particularly high demands they make on a car are best realised by BMW. By their decision to opt for the most advanced automotive technologies available, informed and discerning buyers have acknowledged their understanding of BMW's dedication to innovation. Because they have fully appreciated exactly what BMW means by exclusivity. Namely, status through progress, and not for its own sake.

Whoever decides on the car with the more advanced technology, acquires not only greater potential. But also demonstrates a fine appreciation for the signs of our times. As far back as 20 years ago, BMW had already started reacting to the fast-changing parameters of modern motoring - quite voluntarily, without any outside pressures or influences. That's because the belief in concentrating on essentials has always been a cornerstone of the BMW philosophy. And because we have always regarded pioneering technologies as the best possible basis for handling materials and energy more responsibly, and for preserving both our valuable resources and the environment.



That's why, for instance, BMW has always been committed to sensible engine capacities and cylinder numbers, which are in tune with the needs of their time. For years the BMW in-line, 6-cylinder engine has been regarded as the epitome of engine technology. And through the introduction of new, ultra-modern electronics, BMW has given this legendary concept even greater farsightedness and security for the future. Whoever drives with the new sense of awareness, will discover its ultimate expression in a BMW. No other car manufacturer exploits the

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Welcome 1985. In the coming years, BMW will continue to redouble its efforts with all its usual energy and vigour - to the benefit of everyone who, like us, believes in pushing progress to its limits. At the same time, we'd like to thank everybody - whether they be customers, suppliers or co-workers. And we wish you all in 1985, what you have helped us achieve in 1984: much success.

BMW AG, Munich



FINANCIAL TIMES

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Thursday December 27 1984

Arafat must choose

MR SHIMON PERES, the Prime Minister of Israel, travelled the short distance from Jerusalem to Bethlehem on Christmas Eve. It was a journey intended among other things to signal the freedom of worship which Israel allows in the emotionally-charged territories that it has occupied since the 1967 Arab-Israeli war.

It was also a reminder of the bitterness of the religious and nationalist conflicts which dominate all other issues in the land known to many Jews as Judea and Samaria, and to the Arabs, both Moslem and Christian, as the West Bank.

On Christmas Day 1977, the late President Sadat of Egypt met Mr Menahem Begin, then Israel's Prime Minister, at Ismailia in the Suez Canal. Mr Sadat's intention was to persuade Mr Begin to accept in one bold gesture the principle of a full exchange of occupied territory in return for a full peace between the two states.

The speech which the King delivered to the Palestine National Council in Amman on November 22 laid down a framework which challenges the other Arab nations to accept the reality identified by Egypt seven years ago — that Israel will not be defeated militarily and only through negotiation can there be hope of self-determination for the 1.2m Palestinians living on the West Bank and Gaza.

The early months of the New Year are likely to be critical in deciding the Arab response to this, and in particular that of Mr Yassir Arafat and the Palestine Liberation Organisation.

King Hussein is adamant that the PLO and Mr Arafat are the legitimate voice of the Palestinians and that no-one else can speak for them.

The present strategy is therefore heavily dependent on a positive Arafat reply to his suggestion that they should work together for a new joint initiative aimed at winning wider Arab support and leading eventually to an

international peace conference under United Nations' auspices. As other Arab leaders have found to their cost, getting a clear answer from Mr Arafat ranks high among the list of top 10 challenges in the Arab world.

Those who seek to defend his habitual equivocation point to the fact that in a region of authoritarian rulers Mr Arafat is a mere chairman. He cannot dictate, even though many Palestinians suspect that to be his dearest wish.

Instead he strives primarily to keep a balance between rival Palestinian factions who

King Hussein and President Mubarak of Egypt would like Mr Arafat to stop behaving like a high wire act and to reform and jump down into the ring. His recent performance at the Palestine National Council sessions in Amman demonstrated that he still carries with him a majority Palestinian support and that, as in the wider Arab context, the quest for consensus invariably means granting small minorities the power of veto.

How much the U.S. and some other Western nations might abhor the prospect of lending any diplomatic support to Mr Arafat, they should recognise that the proposals enumerated by King Hussein are based on the principles enshrined in UN Security Council Resolution 242, the one formulation of words on which all parties to the conflict are represented, including the PLO.

To arrive at that point would require momentous changes to have occurred in the Middle East.

Mr Peres said in Bethlehem that he sought "peace, mutual respect, co-existence and understanding" between Arabs and Jews in the Holy Land. The Palestinian mayor of the town said he too sought peace so that "Arab and Israelis can live side-by-side as good neighbours, as free neighbours."

Fine sentiments, but ones which for 40 years have been largely ignored. If that situation is to be changed Mr Arafat must stop equivocating and seize the opportunity which he is being offered. He has no guarantee that it will succeed, but the price of not trying is assuredly that of total failure.

THE SEASON of straining waist-lines and low-flying shirt buttons is upon us once more. But this year, the chances are that your over-indulgence is causing an extra twinge of guilt.

For in 1984, the question of a healthy diet — or the lack of it — has impinged on public consciousness as never before. In 1985, the issue seems certain to affect Britains farming and food industries with even greater force.

The centrepiece for concern has been a slim but deadly study of diet and heart disease from a Government-appointed panel of scientists known evocatively as "The Coma report" (the name stands for Committee on Medical Aspects of food policy).

Its findings are alarming indeed: ● Coronary heart disease and cerebrovascular disease are the number one killers in Britain by a long way, accounting for 40 per cent of deaths in men and 33 per cent in women.

● Mortality from coronary heart disease is higher in the United Kingdom than in any other country except Finland and Ireland (although the rate in parts of the UK exceeds that in Ireland). What is more, deaths from this cause have been declining only slowly, while in several other countries — including Finland — they have fallen dramatically.

● In 1981, over 40 per cent of British middle-aged men and women were overweight, an increase resulting from declining physical activity and dietary changes.

● Animal fat in the diet is singled out as a major culprit for heart disease and obesity. And while British people's total intake of energy has declined steadily since the 1950s, the proportion of that energy contributed by fat has climbed from about 37 per cent in 1950 to 43 per cent in 1982.

Coma recommends a cut in total fat intake of 17 per cent and reduction of about a quarter in consumption of saturated fat. It also advises a reduction in salt consumption, without giving figures, no increase in intake of sugar, and increased consumption of fibre-rich carbohydrates such as bread, cereals and potatoes.

These suggestions are less controversial than those in a previous report which received heavy publicity last year for proposing that consumption of saturated fat, salt and sugar should be halved.

Nonetheless, for farmers and food manufacturers, the result is something akin to a slow earthquake. It undermines some of the cornerstones of British agriculture, and calls in question long-established food processes and preparations.

Among products singled out as major sources of fat are a wide range of dairy items, meat and biscuits.

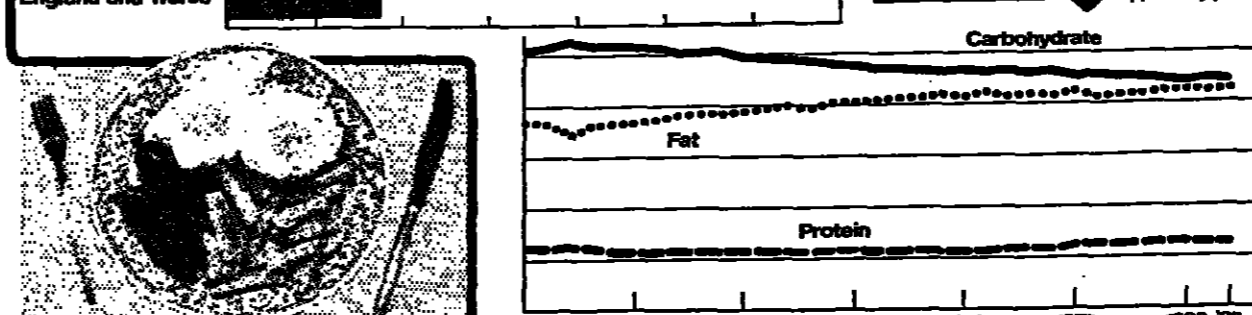
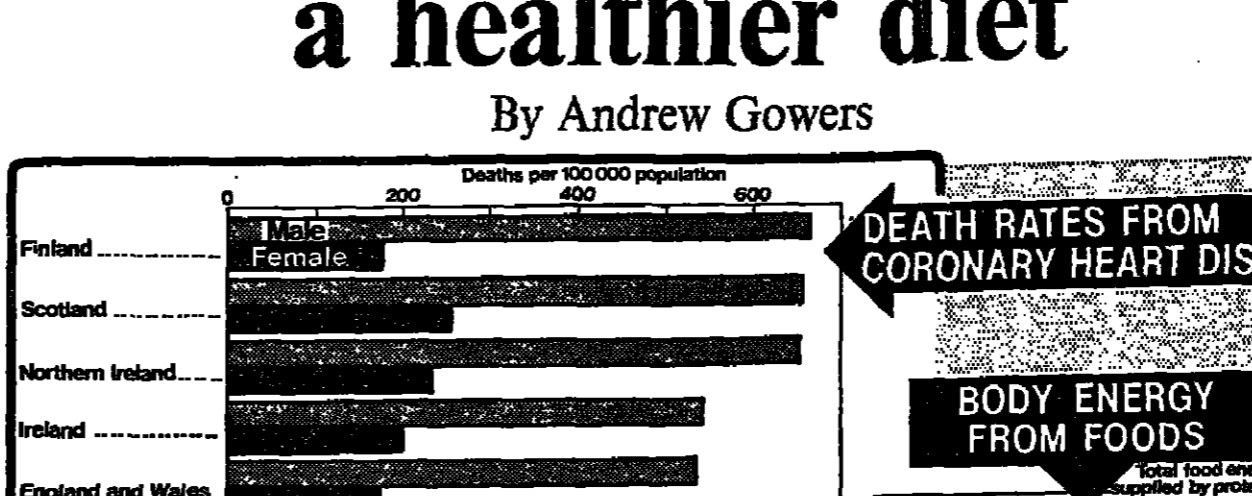
To be sure, the idea that saturated fat is bad for you is not new. Reports recommending dietary change along similar lines have been around since the late 1950s.

There have been increasing signs, too, in recent years that the message about fat is getting through to the public.

Consumption of butter — identified by the Coma report as a major problem — has been on the wane for more than a decade, declining from 204,000 tonnes in 1971 to 204,000 in 1982. Although part of the explanation

AFTER CHRISTMAS... Britain inches towards a healthier diet

By Andrew Gowers



for this lies in price and competition from margarine, there is little doubt that the latter's ability to present itself as a "healthier" product, even if it is not, has also played an important role.

Red meat has fallen prey to a similar trend. The market research company Taylor Nelson reports that the British are eating 20 per cent less lamb and 19 per cent less beef than they did in 1980. Again, the reason is partly competition from cheaper meats such as pork and particularly poultry, but the latter's healthier image is an underlying factor.

Consumption of ordinary household milk has fallen more than 10 per cent since 1982. Sales of skimmed and semi-skimmed varieties, meanwhile, have rocketed from only 1 per cent of the total milk market in 1980 to 12 per cent now. This year alone, sales have tripled.

In clear-cut cases like this, consumers are obviously drawing their own conclusions and voting with their cheque-books. It also reflects the fact that the food industry are concerned, it is a trend which holds as many opportunities as threats — opportunities which can be exploited by skilful marketing.

The stomach size in this market, for example. Apart from catering for the trend in milk consumption, the dairy industry is responding to new tastes with low-fat cheeses, spreads of yogurt, The Walls meat company recently launched a lean sausage, and says it is "very pleased" with sales so far.

Significantly, that product is selling at a considerable premium over ordinary sausages, reflecting the fact that the trend towards healthier food is very much a middle-class phenomenon at present.

"The higher income can afford to choose their food a little more carefully," says Mr Ian Tottman, product manager at Walls. As Dr John Brown, secretary of the Health Education Council, points out, there is another reason: "Fatty products are cheap because fat is almost a throwaway product."

But things are not always as well-defined as this. On the one hand, consumers are not always able to make informed choices. On the other, messages from consumers do not always pass ungarbled to producers.

The Government's response to the Coma report has been to propose labelling foods for their fat content. Agriculture Ministry officials say fat labelling is a fait accompli, and an outline announcement is expected next month.

For the first time, consumers will have access to information about the harmfulness of specific foods. Parts of the food industry, which is not renowned for its openness about what goes into its products, are very worried indeed.

Paralysis in planning

STRANGER, longer-running and in some respects more theatrical than any of the Benjamin Britten operas that were once staged in the same venue at the Maltings, Snape, the public inquiry into the wisdom of building a pressurised water reactor at Sizewell is just coming up to its second day. Optimists say that the closing stages are not now far away. If so, then the Sizewell proceedings will have been laconic in comparison with the inquiry into the merits of expanding Stansted airport, which has lasted for 24 years, and is in large measure going over the ground that has already been covered by an earlier inquiry.

The same unfortunate minister, Mr Nicholas Ridley, who has just been reported to be knocking back benches in the House of Commons because they suspected him of rushing to judgment in the Stansted decision, has recently determined the line of an extension of the M40 from Oxford to Birmingham. The decision has been taken, that is, except for the very matter which has caused the delay so far; namely, exactly where a route can be found to avoid the unique, though perhaps not uniquely unique, wild-life habitats of Otmoor.

Least damage Nor can anyone say there is anything particularly unusual about the planning process in the Otmoor affair, since the building of the same road over the Chilterns was held up for some 11 years by a dispute over which beech woods on Aston Hill could be cut down with least damage to the environment. Yet the decision-making process in all these cases looks almost perfunctory in comparison with the debate over another project on Mr Ridley's plate, the Channel Tunnel.

A cultural clash of symbols

The Japanese have a well-deserved reputation for endurance. While the average Western family is already nursing its hangover, letting out its belt and putting the Santa suit away for another year, the Japanese are still imbering up for the major annual celebration at New Year.

Christmas is a useful preliminary occasion on which to practise extreme conviviality, Japanese style: to call it a "dry run" would be quite wrong. Most offices remain open on Christmas Day, but many Tokyo "salarymen" do no doubt to the seasonally cold weather, are unusually ruddy-faced from lunchtime onward.

The season of good cheer is helped on its way by the payment, in mid-December, of the half-yearly wage bonuses which represent perhaps three months' salary for the average worker. This sudden surge of cash is generally recognised as the cause of the upturn in the Tokyo stock market at the end of each year. It also funds the gift-giving, with which family and professional relationships are cemented in Japan at New Year and also at Midsummer.

New Year's daze

It is not that the Japanese have anything against 1984 — it has, if anything, been a better-than-usual year for town and country alike, with the stock market hitting a record high and the farmers bringing in the best rice crop for five years. But "forget the year" parties are what the Japanese call their year-end office celebrations. The general objective is to wipe the slate clean with generous quantities of liquor in preparation for whatever, besides a hangover, 1985 may bring.

With a night out on the town liable to cost £100 or more per head at Tokyo's livelier nightspots, "forget the year" parties may have accounted for a sizeable chunk of the ¥3.5 trillion (about £2bn) which Japanese companies spent on "corporate entertainment" in 1983.

Men and Matters

Rules for gift-giving are traditional and precise with the size of the present varying to suit the closeness and status of the recipient. The average Japanese middle-manager spends the equivalent of £1,000 a year on presents, each of which has an average value of £10-£15.

If Christmas cheer is easily assimilated into Japanese office parties and department store sales promotions, it can still sometimes gain or lose a little in translation. One Tokyo television channel ran as its seasonal treat this week a film, innocuously titled "Merry Christmas, Mr Lawrence," which is in fact a particularly harrowing account of life in a Japanese prisoner-of-war camp.

Unjust desserts

Some of the least happy people in Japan during this festive season must be the executives of food companies targeted by the extortion gang which calls itself "the man with 21 faces".

Scarcely more happy can be the Japanese police force, which has not only failed to stop the gang during its nine-month spree of kidnap, blackmail and poisoning, but has been mocked and abused by the extortionists in frequent pseudonymous letters to newspapers.

All in vein

Whether it is a fad or a longer-term fashion, the idea of blood-typing as a social denominator has been gaining popular ground in Japan this year. Job advertisements sometimes specify a preferred blood-type for applicants.

Observer

Asahi Breweries, one of Japan's major drinks companies, purports to have found a link between blood-type and drinking habits. "A" groupers usually prefer bars with an intimate atmosphere; "B" groupers will drink anywhere; "O" groupers are "open and easy," while "AB" groupers are "cool," says Asahi, basing its findings on a survey of 1,464 drinkers. It is not known whether Dracula was among them.

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UK BIOTECHNOLOGY

Why industry is taking more notice

By David Fishlock, Science Editor

THE DIRECTOR of a British government research laboratory recalls wryly how in 1979 he tried to interest a UK company in an original biotechnology idea. The company hesitated, refused it, then finally said yes—three years later. By then U.S. industry had seized the idea.

But times change. A flurry of announcements this autumn suggest that Britain is becoming quite innovative—as well as much bricker about handling technology transfers from lab bench to industry.

Within recent weeks companies as well-known internationally as Grand Metropolitan, ICI, Air Products, Ciba-Geigy and Eli Lilly have all been associated with new British biotechnology ventures.

On the science side, several national laboratories with international names, such as the Rothamsted Experimental Station in Hertfordshire, the Plant Breeding Institute in Cambridge, and the Centre for Applied Microbiology and Research on Porton Down, have been linked with commercial biotechnology ventures.

Just before Christmas the Medical Research Council announced plans for a £1m scientific "showcase" at its 12 London laboratories, to facilitate closer ties with the drug and medical technology industries.

As a "creative broker" for technology transfer, the British Technology Group has been reborn and is now mandated from government to bring commerce together with UK invention. Its present portfolio of inventions is strong in biotechnology.

BTG's chairman, Mr Colin Barker, has given assurances that BTG will not be trying to direct the national pattern of research but rather will be responding to the needs of the research community to find more sponsors for its ideas. It is building a data bank which he wants to use to match industry's needs with UK invention's portfolio of 1,800 inventions.

What may prove the most important feature of this data bank, however, is that, provided enough companies come in, it could be highly revealing about where British industry sees its own technological destiny.

While in limbo, uncertain what the government intended



Dr Peter Dean (left) and Dr Roger Gilmour of the Agricultural Genetics Company.

its future to be, BTG planned and launched a biotechnology start-up venture which seeks to exploit advanced British plant science. The Cambridge-based Agricultural Genetics Company was seen by its founders as the "country cousin" of Coltech, an earlier British biotechnology venture.

Coltech struck a deal with the Medical Research Council, giving the new venture first refusal to all its research in the new biotechnologies such as genetic engineering and monoclonal antibodies.

The Agricultural Genetics Company has negotiated similar rights to the new biotechnologies of six of the research centres of the Agricultural and Food Research Council. The commercial potential of such research as Rothamsted's use of microbes to control crop pests, the cocktails of microbes that can biodegrade straw, have drawn in such companies as Ultramar, Eli Lilly and Ciba-Geigy, as investors.

The new company is a conduit through which plant biotechnology will feed into these research centres, which are already established in agricultural chemicals. Its job is to pinpoint the promising science, pay for the development—probably in the same national laboratory—then for

the entrepreneur to take over the package of technology for transfer to production with a minimum of fuss.

Coltech, meanwhile, has firmly established the principle that an entrepreneurial venture can "milk" a research centre successfully for commercial ideas. In contrast to present plans of the country cousin, it set up its own laboratories from the start, and within a year had selected and transferred certain key biotechnologies from the medical scientists in Cambridge and elsewhere.

What proved more difficult was selling itself to potential customers. Coltech's investors are finance houses and institutions, not prospective customers. The breakthrough came in 1983 when Boots the chemist entered into a joint venture with Coltech, to develop and market the first fruits of the Nobel prizewinning Cambridge discovery of monoclonal antibodies. These first products will be new medical tests for diseases, and for conditions such as fertility and pregnancy.

For Boots, the joint venture is simply an investment, not a dead source of the new medical products, says Mr David Gratton, its chief executive. Boots itself must compete with others to sell the new foolproof tests.

But Mr Gratton sees it as a smart move. Boots, in my view, is that Boots has been quite bright to get into diagnostics in this way. It has

bought into an international centre of expertise for a very modest fee, about £2m. He expects the joint venture to be in the black by 1986.

He sees confirmation for his own confidence in recent approaches by ICI to headhunt senior staff from Boots-Coltech. ICI, thwarted in an attempt earlier this year to negotiate a joint venture with the Swedish group Cardio, has just set up ICI Diagnostics, a new venture closely related to its pharmaceutical division and its primary interests in cancer and heart disease.

LH Engineering is part of a new biotechnology venture called Porton International, announced this summer as an unquoted private group based in London and Washington, backed by 15 institutional investors. Dr Tony Atkinson, director of CAMR's 80-strong microbial technology laboratory, says Porton International has established close—though by no means exclusive—links with CAMR over the past 18 months.

As Professor Sydney Brenner, director of the Laboratory of Molecular Biology in Cambridge and a key figure in the successful biotechnology transfer to Coltech, sees it, academics will fight shy of helping industry on a "phone-a-come" basis. But the biotechnology start-ups can spearhead technology transfer to industry, while the universities themselves are fashioning entirely new kinds of department, that will do for biotechnology what the engineering departments now do for physics in technology transfer to industry.

The Government has given CAMR every encouragement to forge commercial connections. For example, in bioreactor design it works closely with a British company called LH Engineering.

He found the island to contain large deposits of guano, the droppings of sea birds which at that time fetched a good price as fertiliser.

On June 21, 1861 a British ship took possession of Ichaboe Hotentot (or "the lonely place") Island in the name of Queen Victoria. In the following August, Sir George Grey proclaimed the sovereignty and dominion of the Queen over the island and a cluster of others.

This proclamation was "subject to Her Majesty's gracious confirmation and disallowance." Such "gracious confirmation" however, was disallowed and it was not until 1866 that Great Britain had second thoughts and proceeded to proclaim sovereignty and dominion over the Penguin Islands which were then annexed to the

Colony of the Cape of Good Hope. In 1910 they became part of South Africa and remain so.

There was a more exciting secret than guano waiting to be discovered on the nearby coast. It was the world's richest source of gem quality diamonds. The first diamond was picked up in 1908 by a railway worker, Zacharias Lewula, just south of Luderitz.

Inevitably, this triggered a diamond prospecting rush and within a few months the colonial administration of the area in what was then German South West Africa sealed off the region surrounding the finds. It was proclaimed a Sperrgebiet, "forbidden territory" to casual visitors. Small mining companies were formed and some £9m worth of diamonds was produced in the following six years.

Among the undetected diamond-seekers in these waters is Ivan Prinspe, who for many years has been fascinated by the potential of alluvial mineral deposits. In 1978 he hired a fishing boat and a diver and recovered diamonds off Kleinsee in Namaqualand. Further success attended his fledgling Dawn Diamond Company as it grew in stature with 30 boats at work, and this resulted in a prospecting rush to the area.

In 1982 Prinspe sold his stake in Dawn Diamond and left Namaqualand to try his luck in the territorial waters surrounding the 12 "forgotten" guano islands. The holder of their mining leases, granted by the South African Government, is Eiland Diamante, an associate company of the Rembrandt tobacco group.

Eiland has granted Prinspe's private company, Ocean Diamond Mining, exclusive rights to mine the areas in return for royalty payments and a share of profits.

After knocking on many doors in search of finance, Prinspe has managed to interest the British merchant bank Baring Brothers and, with its assistance, has arranged initial financing of £3.3m via a private placing of debentures and shares.

Prinspe's advisers estimate that an average price of R150 per carat the operation should run at a profit if it can maintain a recovery rate of over 2,000 to 3,000 carats per month.

Undersea gem mining

Where diamonds are a gull's best friend

By Kenneth Marston, Mining Editor

THE PROSPECT of undersea diamonds has suddenly awakened interest in a dozen desolate little islands off the Namibian coast.

According to a Cape Town geologist, the Penguin Islands could be sitting among at least 2m carats of diamonds, worth about \$200m—and there could be considerably more.

Sea trials involving a coastal vessel, Calypso, are in progress, according to the latest report received by Menora Resources, the Canadian company which holds a 5 per cent stake in Ocean Diamond Mining. If all goes well, the vessel could be recovering diamonds from the seabed any time now.

The venturers intend to start mining operations around the southernmost island, Pomona, where over 10,000 carats were recovered during 41 days in 1970.

Many a tale of high adventure, riches, disappointment and even sudden death can be told of the 400 miles of Namib Desert coastline that runs south from Walvis Bay through Namibia down to the Orange River.

When not brooding in the fogs that roll in from the South Atlantic, the arid coastline can be lashed by gales and blinding sandstorms. Until the 19th century it was just another desolate part of the world.

Then, a ship's master decided to take a look at one of the 12 tiny islands.

He found the island to contain large deposits of guano, the droppings of sea birds which at that time fetched a good price as fertiliser.

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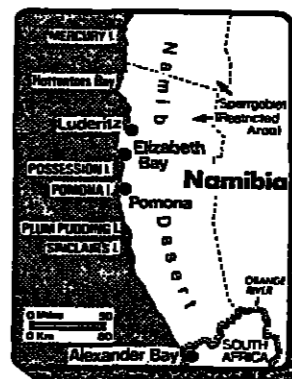
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Skills will be needed

From the Secretary, Institution of Production Engineers.

Sir.—As we move into 1985, employment prospects for the year ahead look highly uncertain. Against this background it should be a matter for concern for all of us that too many of our young people, who are at this time in the year faced with important decisions relating to their futures, are discouraged from embarking upon careers in manufacturing industry.

It is certainly true that over the past six years the workforce in manufacturing industry has shrunk by about 30 per cent, and it is these sort of statistics that disguise the fact that there remains a chronic shortage of qualified, professional, production engineers.

Manufacturing industry today is in the midst of a continuing technological revolution, the effects of which will be felt well into the 21st century. To manage these exciting new developments we need all the skills and intellect of our very brightest young people, both male and female.

We must encourage youth, and those responsible for their education, to recognise the tremendous potential that careers in production engineering offers. As stated recently by Mr John Butcher, Parliamentary Under Secretary of State for Industry, "Production engineers will become the industrial architects of the future."

Production engineering has lost its "bolder suit" image. Today our schools and universities need to be equipping young people, boys and girls, with the skills and knowledge which will enable them to become the managers of modern technology.

When Britain's offshore oil and gas revenues begin to decline, probably in the mid-1990s, the burden of national wealth creation through added value will again fall heavily upon manufacturing industry. Unless we act now the prospects for future generations will be bleak indeed.

R. J. Miskin, 66, Little Ealing Lane, W5.

Expansion at Heathrow

From Mr A. Lucking
Sir.—While Mr Fathers' article (December 14) is admirable, I believe that the inspector has come to the right answer, perhaps for the wrong reasons. The current 300,000-310,000 maximum number of air traffic movements can be increased by exploiting the emergent U.S. air traffic control technology, together with that evolved here.

Letters to the Editor

British air traffic controllers achieve more instrument landings per hour than Americans. But the Americans appear to be nearer to achieving instrument operations on close parallel and converging runways, for example. The Americans are using short, offset runways for the small aircraft, which have to be spaced widely from the jumbos, and so absorb a disproportionate amount of runway time. Steeper approach paths, and exploitation of the new microwave landing system are contributing also.

A more determined approach by all concerned would enable such commuter runways to be added at both Heathrow and Gatwick. And though the huge investment needed to build Stansted may appear to be freely available from passengers' pockets, in fact it is yet another example of the prodigal use of the nation's limited resource, which the much richer Americans have rejected. They have decided that technology is cheaper than new airports, and their plan is to exploit their existing real estate to the utmost. We should do the same.

A. J. Lucking, 17, Broad Court, Bow Street, WC2.

The price of potatoes

From Mr J. Fuller
Sir.—I thank you for getting your cartoonist, Nick Carter, to produce such a delightful illustration for my letter (December 11). The smug grin on the face of the chemist holding the blue dye—"I'm clever. I thought up this one"—the broad toothy grin of the enthusiastic confident man from the advertising agency; plus potatoes everywhere. I am sorry that Robin Pooley, chief executive of the Potato Marketing Board (December 12) was not amused.

Since, however, he is sitting on a potato mountain costing £20m which is gradually turning to a mushy heap, I suppose we must excuse his techniques. What is not excusable is his inference that the British are privileged to have a PMB to guarantee adequate supplies for their voracious appetites. Eggs have not disappeared with the demise of the Eggs Marketing Board, and in the highly unlikely event that the British farmer failed to supply the market with sufficient potatoes, then I am sure the Dutch would gleefully make up the shortfall. They have an exportable surplus

this year of 1.5m tonnes and their transport costs would add 1p per lb, a sum which Mr Pooley's figures would more than enable the British farmer to compete.

Mr Pooley also admits that the PMB acts as the agent in a conspiracy, aided and abetted by the Government, to maintain a minimum price for potatoes. If we were dealing with industry this would be considered a cartel and be illegal, but because it comes under the heading of the "sacred cow" of agriculture it is called a "price support operation" and becomes legal. Only the morning of December 17, listening to the PMB daily report we hear, and I quote: "There is evidence producers are selling on open ticket and unlicensed sources without authority. Both these practices are contrary to the Board's regulations and are having a weakening effect on the trade." Look out, you naughty farmers. Big Brother is watching you.

Fortunately for us—oppressed, exploited, non-farming members of the EEC—help would appear to be at hand. Should President Reagan and Mr Block, the U.S. Minister of Agriculture, be able to carry out their plans as outlined (December 14) then the cost to the Community of their agricultural policy will become even more astronomically expensive so that either they will have to make drastic reductions in the level of farm support or—dare we hope—abolish the Common Agricultural Policy altogether.

John H. Fuller, 15, Aberdour Road, 11ford, Essex.

Floating off in the City

From Mr R. Stewart
Sir.—When Mr Butcher suggests (December 13) that Stock Exchange member firms should have off the corporate finance departments "eg to merchant banks," he seems to have failed to notice that most firms of stockbrokers with corporate finance departments will shortly be owned by merchant banks. It is arguable moreover, that a greater conflict than that between stockbrokers' corporate finance departments and broking functions exists and has always existed in the conflict between merchant banks' corporate finance and investment management functions. One can see that there will

be economies in having the same institution dealing with both corporate finance (which is intrinsically linked with underwriting and broking/dealing. All these operations benefit from a large capital base and can therefore support each other. Investment managers however, should not need a large capital base and their function involves conflicts with corporate finance, underwriting and broking. Should not Mr Butcher's suggestion be amended so that firms float off to the new investment management functions?

Imports of textiles
From the Chairman, Textile Industry Support Campaign
Sir.—Yet another academic is calling for a return to the textile industry—this time Prof Silbertson argues (December 14) that our "protection" costs the UK consumer £500m per year.

This assertion is based on the premise that the UK has readily available imports mean cheaper goods in the shops but the High Streets are awash with boutiques full of imported clothing bought for pennies and sold for pounds.

It is the importer and the middleman who would benefit from the free-for-all the learned gentleman advocates and further unemployment would hit the most loyal and strife-free sector of British industry.

It would be a sorry day indeed if our largest retailer had to abandon its well tried policy of buying British because there were no suppliers left.

John G. Bridge, 115 Windsor Road, Oldham.

Applauding at the opera

From Mr P. Shorelton
Sir.—William Weaver (December 19) says in relation to the new production of La Traviata in Florence: "It is always a pleasure to see a packed house applauding and shouting with approbation." Yes, sir, but not, please, after an act or in the middle of an act. The Continental habit of applauding the singers mid-stream can only be compared with clapping at the end of a symphony movement. Would-be applauders of the latter type are rightly frowned upon and silenced. And fortunately at Covent Garden the Continental habit has virtually died out. Could the British not add to their services to humanity by influencing the great Continental opera houses against merchant banks' corporate finance and investment management functions. Patrick Showlton, Long Marling, Down Lane, Frant, Tunbridge Wells.

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BALLOT-RIGGING AND DEATHS DISRUPT ELECTION

Voting reopens in Indian polls

BY JOHN ELLIOTT IN NEW DELHI

POLLING IN India's general election reopens today amid allegations of ballot-rigging during the first stage of voting on Monday and after more than 20 people have died in violent clashes. One opposition leader has alleged that an attempt was made on his life. A relatively high poll of 60 to 65 per cent was estimated for Monday's voting, which covered about two thirds of the country's 380m registered voters.

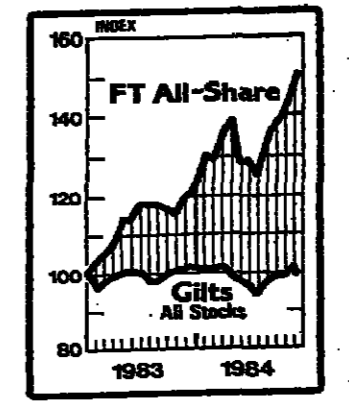
The ballot-rigging, usually involving what is known as booth capturing, is carried out relatively openly. On Monday it was watched by journalists and other observers both in Bihar and in the Uttar Pradesh town of Baghat, where Mr Charan Singh, a veteran opposition leader who was briefly Prime Minister in 1979-80, faces a tough electoral battle. Party activists, sometimes armed, take over a polling booth and mark ballot papers or choose who is allowed to vote. They steal ballot boxes when polling has closed. Politicians from most parties indulge in such activities both to gain votes and to disrupt the successes of their opponents. Often they divert attention from their own difficulties by alleging that an opponent is ballot-rigging and then insist on a re-poll.

Bath and Portland accepts friendly £61m bid

By Martin Dickson in London

CONSOLIDATED Gold Fields, the UK-based international mining and industrial group, has unexpectedly stepped into the takeover battle for Bath and Portland Group, the quarrying and construction company, with a £61.5m (\$72.3m) agreed offer - some 20 per cent higher than the hostile bid launched last month by C. H. Beazer (Holdings), another UK group.

THE LEX COLUMN Fair shares for all in 1984



A vintage year in London for equities, certainly, every bit as satisfying as the well remembered 1983. It has had the same rich bouquet of rising profits and dividends, and any reservations about the long-lasting depth of economic recovery underneath the 1984 market have been quelled by the specific gravity of capital gains - another 23 per cent, just a notch better than last year.

with earnings cover of about 2.5 times on a historic cost basis, the dividend stream has perhaps gained a bit in overall quality. The old-style yield gap has thus widened a fraction, since conventional gilts have again failed to make progress during the year, failing yet again to pierce the 10 per cent yield barrier. Indeed, the resurgence of worries about the price of crude oil at the very end of the year stemmed a rather promising rally.

Merrill bid for Tokyo exchange seat fails

By Terry Povey in London

MERRILL LYNCH the world's leading securities brokerage house, has failed to become the first foreign broker to get a seat on the Tokyo Stock Exchange. The U.S. company's ¥1.25bn (\$5m) bid for the seat was bettered by Japanese broker Utsunomiya Securities, which had offered ¥1.4bn.

Americans rush for London listing ahead of tougher rules

BY ALEXANDER NICOLL IN LONDON

CHRISTMAS ended early this year for the corporate finance departments of City of London merchant banks and stockbrokers that are assisting a stampede by U.S. companies to obtain listings on the London Stock Exchange before the new year. From January 1 the exchange's new Yellow Book comes into force, making its listing requirements conform with European Community directives and giving many of them the backing of law. The City is still pondering the long-term implications of the new rules, which will make the procedure for issuing most types of securities - including those issued to finance takeovers - considerably more cumbersome.

Rumblings

Moreover, there were already some rumblings of the UK miners' strike a year ago. Although scarcely any suspicions of its length and political seriousness. In advance, it would not generally have been thought that a nine-month coal strike, with a couple of more briskly damaging dock strikes thrown in, would leave the market's optimism intact. More worrying than any of these arguments, to those who believe in weight-of-money, was the looming £6bn sale of British Telecom - an expected demand on institutional cash flow which overhung the market all year.

Devaluation

In 1984, as for some time past, it is probably the finances of the U.S. Government that one must look for the clue to what has happened elsewhere. It is, after all, the federal deficit which has pulled in U.S. capital account, enabling the dollar to rise still further against all currencies - and most new year predictions. It is exports from Europe and Japan which largely make up the offsetting current account deficit, and which have played a large part in improving the earnings experience of markets other than Wall Street.

Pacific Telesis to move into UK

BY JASON CRISP IN LONDON

PACIFIC TELESIS, one of the leading U.S. telephone operating companies, is to enter the British telecommunications market through acquisitions and joint ventures. As its first move it is to purchase an electronic mail company which will bring it into competition with operations run by British Telecom and Cable Wireless. Pacific Telesis, freed to operate overseas by a recent U.S. court ruling, is planning further and significantly larger acquisitions and joint ventures in the UK.

Phillips fights off Mesa bid

Continued from Page 1

Phillips will buy in 58.5m shares, or 38 per cent of its 154m shares outstanding, using new debt securities valued at \$60 a share. The value of the securities is equal to the offer price of \$60 a share proposed by Mr Pickens. Over about a year a further 20m shares are to be purchased in the open market. These are to be acquired at not more than \$50 a share, at an expenditure of around \$1bn. Up to 32m shares are to be issued to an employee stock ownership plan (Esoop), which can borrow money for the acquisition at favourable

World Weather table with columns for location, temperature, and other weather indicators.

Iran steps up attacks

Continued from Page 1

Military communiques from Baghdad in the past few days have claimed hundreds of air sorties being flown against Iranian troop concentrations. Iraq is also believed to have moved some of its forces north from the port of Basra. The offensive, when it comes, is expected to be similar to the one launched opposite Baghdad in October and to have limited objectives. In October Iranian troops recaptured a small slice of territory but were then forced again to concede most of it in Iraqi counterattacks.

Advertisement for Bovis Construction Ltd. with headline 'It seems there are only two builders to choose from these days.' Includes a picture of a hummingbird.

Advertisement for Bovis Construction Ltd. with headline 'One is called Bovis Construction. And the other, 'me too.' Because whenever a project is built under a Management Contract it's using a method of building which has been pioneered, developed and brought to professional perfection by Bovis.' Includes a picture of a hummingbird.

Handwritten Arabic text at the bottom of the page.

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SECTION II - COMPANIES AND MARKETS
FINANCIAL TIMES

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Tenneco-Harvester deal faces Trade Commission probe

BY OUR FINANCIAL STAFF

THE U.S. Federal Trade Commission (FTC) has launched an anti-trust investigation into the proposed acquisition by Tenneco of Harvester farm machinery assets of International Harvester.

The move by the FTC came at the request of the U.S. Department of Justice, and officials said the investigation would most likely be completed by late January.

Tenneco has agreed to acquire Harvester's farm machinery assets for \$400m in cash and stock and to take over \$75m of Harvester's unfunded pension liabilities.

At the time of the announcement of the deal, Tenneco made it clear that the timing of the move had been partly dictated by possible anti-trust considerations. The FTC was seen as far more likely to allow the bid to go through under the failing companies laws, and it is not expected that the commission will now to block the deal.

The FTC now has the choice of either recommending approval of the deal to the merger screening committee, citing the failing company provision of the Clayton Act, or asking the Department of Justice to challenge it on anti-trust grounds. FTC investigators are thought of

Paul Betts on why the oil derricks are going up around Paris
Total takes a gamble on home ground

COMPAGNIE Francaise des Petroles, France's multinational oil group which trades under the Total name, has succumbed to the charms of the gentle rolling countryside of the Eerie on the western flank of Paris.

Its interest in this region of cereals and sugar beet is not, however, purely aesthetic for, after Aquitaine in the south-west of the country, this area - only an hour away from Paris - has proved to be the most promising oil prospect in France.

Total is now the second largest oil producer after Esso, the French offshoot of the U.S. Exxon group, in the Paris basin - popularly known as "Dallas-en-Brie". Although the current operations in the basin are modest by international standards, Total, like Esso, is investing more and more in this local prospect.

The company plans to double its French exploration and production budget next year. "After spending about FF 200m (\$31m) in France this year, we plan to spend some FF 400m in 1985," says M Pierre Vailland, head of Total's worldwide exploration and production operations.

"The cost of drilling 40 to 50 wells in the Paris basin is the equivalent of drilling one deep offshore well in the Mediterranean. Quite frankly, I

prefer to drill 40 to 50 wells in the Paris basin," he says.

Total, with its partner, Triton, a French subsidiary of the UK-based Invest Energy company (itself a subsidiary of Triton Energy of Dallas), is currently producing about 2,500 barrels a day (b/d) of oil from its field at Villeperdue. M Vailland expects production to increase to a rate of between 6,000 and 8,000 b/d by the end of next year.

Total and Triton also have high hopes for a nearby field at Melun, which borders Esso's discovery at Chaunoy. Esso expects to produce 10,000 b/d at Chaunoy by next year.

Although this rate of production represents only a trickle within Total's worldwide oil output of around 800,000 b/d, it is, in the words of a company exploration official, "good money".

The Paris basin is the sort of prospect on which small and medium-sized independent oil companies thrive in the U.S. and at a time of general belt-tightening in the oil industry, the emphasis among the oil majors has shifted away from sheer volume.

Total is no exception. "What interests me is to see the FF 700m we have sunk into French exploration pay back as soon as possible," M Vailland says. He expects it will take three to four years for the Paris basin discoveries to pay back this amount.

Total's commitment to domestic activity also reflects the evolution in the group's approach to exploration and production, however. Unlike Elf Aquitaine, the other large French oil company which has grown rich on its huge gas reserves at Lacq in south-west France, or for that matter Esso, the largest crude oil producer in France, Total has only recently established its presence in the domestic exploration and production scene.

Traditionally, Total's main operations have been centred in the Middle East, Indonesia and the North Sea, but the French company has been seeking to restructure its international exploration and production operations through concentrating more on western OECD areas.

M Vailland says Total will be significantly increasing its exploration and production spending in the U.S. next year. "So far we have spent peanuts," he acknowledges.

Unlike Elf, whose U.S. strategy has been to concentrate on the new frontier regions of the U.S. outer-continent shelf of California and Alaska, Total intends to adopt a much more cautious approach. It does not plan to go in initially for high-cost, high-risk U.S. oil prospects but stick to smaller onshore and offshore sites in Texas and Louisiana.

M Vailland also says there will be a significant increase in Total's exploration spending next year. Total this year devoted only FF 1.6bn to exploration, reflecting the squeeze following the heavy losses on its refining operations and the oil market slump. The company reported a loss of FF 1bn in 1982, the first in its history, but it has been recovering, reporting earnings of FF 420m in 1983 and of FF 1.2bn in the first half of this year.

Despite Total's efforts to redeploy some of its exploration operations away from traditional patches, the non-OECD countries will still account for more than half of the group's exploration and production budget next year. M Vailland would not disclose the size of next year's budget since it still had to be approved by the board and the group's recently appointed new chairman, M Francois-Xavier Ortoli, the former French EEC Commissioner and former Gaullist minister.

He says about 25 per cent of new exploration spending will involve the North Sea and about 30 per cent Africa. The Far East will probably account for less than 10 per cent of exploration investment. France about 10 per cent and the rest of the world 25 per cent.

Among the areas where Total has interests is Argentina, where promising offshore oil development pros-

pects continue to be blocked by the Argentine debt crisis. In Sudan, Total is also holding on to extensive acreage but has no immediate exploration projects.

The geographic distribution of Total's exploration and production budget is still a far cry from those of other large oil companies. "Between 70 and 80 per cent of their budgets are concentrated these days in the North Sea and in North America," M Vailland says.

M Vailland and other senior Total executives appear encouraged by the results so far of their recent foray into oil exploration in France, modest as they may be on an international scale. Production costs are low in the Paris basin, averaging between \$8 and \$8 a barrel. The crude is of good quality with an API gravity of 34 degrees at Villeperdue and around 37 degrees at Esso's Chaunoy field.

Moreover, the large Elf refinery of Nargis is conveniently close to the Paris basin oil fields. The two French oil companies, Total and Elf, are now so enthusiastic about the area that they have applied for permits to conduct seismic studies in the city of Paris itself.

"After all, there may well be oil under the city and the Eiffel Tower would make a perfect oil derrick," said a Paris-basin oil man.

Winding up order for Deak Perera

By David Dodwell in Hong Kong

THE HONG KONG Government will today petition for a winding-up order on Deak Perera (Far East), the Hong Kong-based foreign exchange and gold dealer that ceased operations two weeks ago when its U.S.-based parent filed for protection from creditors under U.S. bankruptcy laws.

The move follows the appointment earlier this week of an inspector to investigate the affairs of the company and the granting of a High Court injunction freezing the company's assets in Hong Kong. The collapse of Deak Perera, a group which spans financial services as well as gold and foreign exchange dealing, has raised embarrassing questions in both Hong Kong and the neighbouring Portuguese-administered territory of Macao about the regulation of companies not entitled to operate as deposit-taking companies.

Local depositors who are owed more than \$30m have over the past week put increasing pressure on the Government to liquidate the company. There is concern that delay may have allowed the group to transfer deposits outside the territory's legal jurisdiction. Deak Perera had a subsidiary - Deak Perera Finance - which was registered in Hong Kong as a deposit-taking company. It has become clear since the collapse, however, that many deposits placed with the company were channelled through the gold and foreign exchange dealing subsidiary to Deak and Co (Macao).

The licence of Deak Perera Finance has been suspended on the grounds that it was being managed in a manner detrimental to depositors.

Swissair expects higher profits

BY JOHN WICKS IN ZURICH

SWISSAIR, Switzerland's national airline, now expects to show a higher net profit for 1984 than the record SwFr 59.3m (\$22m) booked for the previous year. In November, the company had said it awaited earnings at about the same level as for 1983.

According to Mr Robert Staubli, management chairman, the improvement has been possible despite the negative effect of exchange-rate developments. For the first time since 1976, he said, actual flight operations had just been in profit.

However, Mr Staubli pointed to a number of "unwelcome aspects" in 1984 business. Those included the drop in passenger volume at a time

of worldwide sales growth, difficult landing-rights negotiations and increased costs in a number of sectors.

He said the airline had taken steps to counteract such negative factors wherever possible and necessary. The inclusion of such measures in the 1985 budget meant that Swissair again reckoned on "positive earnings prospects" next year. The budgeted net profit for 1985 is put in the same bracket as that for this year and 1983, he added.

Hilti, the Liechtenstein-based industrial concern, will book record earnings for 1984, according to Professor Martin Hilti, the company chief.

With consolidated group turnover

Borregaard lifts stake in Nora

By Fay Gjester in Oslo

NORSK-HYDRO and Borregaard, two of Norway's leading industrial concerns, have announced a share swap worth about Nkr 200m (\$22m), which substantially increases Borregaard's stake in Nora, a profitable foods and beverage group, while making Hydro the 100 per cent owner of the chlorine plant at Norway's Rafnes petrochemical complex.

Since the Rafnes complex was completed in 1977, the chlorine plant has been jointly owned by Hydro and Borregaard. In exchange for Borregaard's half-share in the facility, Hydro has sold its 22 per cent shareholding in Nora.

Bond buys Brisbane TV station

BY OUR FINANCIAL STAFF

BOND Corporation, master company of Mr Alan Bond's Perth-based beer, property and investment group, has agreed with Amalgamated Wireless Australia (AWA) to acquire the QTQ 9 television channel in Brisbane, Queensland, for A\$85m (U.S.\$54.2m).

Bond Corp has also agreed to sell its Perth radio station 6KY to AWA for A\$7.5m. The radio station was part of the Swan Television and Wireless company bought a year ago by Bond Corp.

Bond Corp said the acquisition of the Brisbane station demonstrated its commitment to the television industry. It currently operates the Perth television station STW 9 through Swan.

Both QTQ 9 and STW 9 are now closely associated through their involvement with the Channel 9 network of television operators, and the management and operations of QTQ 9 are well known to STW 9.

The acquisition price for QTQ 9 would be made in cash from Bond's existing lines of credit, the company said.

largely from high palm oil prices, together with higher production of oil palm and increased income from associated companies.

Consolidated attributable profit was only 30 per cent higher at 60m ringgit because of the non-recurring sale of investments in the previous financial year.

The final dividend is 10 cents, making an unchanged 15 cents for the year. The group expects profits for 1985 to be as good as the results just achieved, barring a sharp decline in palm oil prices.

NZ licence for Seagram

SEAGRAM, the international distilling group, has received a licence to produce gin and vodka in New Zealand. It will expand and re-equip its NZ subsidiary, Wilson Distillers, which already makes whiskey, to produce gin and vodka.

It will use New Zealand as a base for exports to Australia and the South Pacific.

How to identify counterfeit securities

BY MAGGIE URRY IN LONDON

SCROOGE used to spend Christmas counting his money. Years of gloating over his gold meant that he could spot a fake sovereign from more than an arm's length away. Life is harder for a Eurobond investor looking through his portfolio. Counterfeit bonds can look very like the real thing.

The anonymity value of bearer bonds is well known, but since the actual bonds are the only evidence of ownership, they also lay the buyer open to counterfeiters. The case of the fake J. C. Penney zero-coupon bonds is still fresh in investors' minds.

Those bonds were picked up by an eagle-eyed banker when they were delivered to Morgan Guaranty in December 1982.

Had they not been noticed, they could have passed around the system for years and been found only at redemption. Perhaps there are other dud bonds out there now.

So how can an investor tell if

what he has is the genuine article? The bonds have a number of safeguards incorporated by the printers. If these safeguards are missing, or do not look and feel right, the bondholder should question whether there is something wrong with his paper.

Unfortunately, these features are not universal among Eurobonds. The British Bankers' Association has recently laid down minimum requirements for printing Certificates of Deposit if they are to be good for London delivery. They cover four standards for the paper and 13 printing techniques - most of which would flummox a counterfeit or forger on their own, and when combined form a formidable line of defence.

Most bonds will have an intaglio border. Intaglio (the "g" is pronounced) printing, by using steel engraved plates, gives that slight raised effect to the ink, which feels rough when a finger is rubbed over it. A litho-printed copy would just have a flat layer of ink on the paper.

The intaglio process, which is recommended by Interpol as providing the maximum guarantee against counterfeiting, also gives very clear detail to the complex pattern which a photocopy or other printing process cannot reproduce. So if the border on the bond looks blurred, get suspicious.

Photocopiers can also be defeated by the "void concept" now compulsory for CDs. A word, such as "void", can be hidden in the final detail of printing, which shows up the certificate in colour photocopied.

Intaglio printing can also conceal a "latent image," a feature developed by Bradbury Wilkinson, the security printers. From above the printing looks just like the usual pattern, but if the document is tilted and read from the edge of the paper, a message appears which has been hidden in the depth of the

Company Notices

ECU 50,000,000 Floating Rate Notes due 1989
 Exchangeable for 13% Bonds due 1989

Unconditionally guaranteed by THE REPUBLIC OF FRANCE

In accordance with the terms and conditions of the Notes, notice is hereby given, that for the Interest Period from December 28th, 1984 to March 29th, 1985 the Notes will carry an Interest Rate of 9 1/2% per annum. The interest payable on the relevant Interest Payment Date, March 29th, 1985 against Coupon No 10 will be ECU 24.65 per Note.

Agent Bank
KREDIETBANK
 S.A. LUXEMBOURGEOISE

The Kingdom of Thailand
 U.S.\$85,000,000

Floating Rate Capital Notes due 2000

In accordance with the provision of the Notes, notice is hereby given that the Rate of Interest for the last three months of the Interest Period ending on 28th March, 1985 has been fixed at 9 1/2% per annum. The interest accruing for such a three-month period will be U.S.\$117.19 in respect of the U.S.\$5,000,000 denomination and U.S.\$69.38 in respect of the U.S.\$250,000 denomination and will be payable, together with the interest for the first three months of the said Interest Period on 28th March, 1985, against surrender of Coupon No. 2.

27th December, 1984
Manufacturers Hanover Limited
 Reference Agent

IRELAND FINDS A NEW WAY TO TRIM BORROWING COSTS

Dublin cashes in on easier terms

BY MARGARET HUGHES, RECENTLY IN DUBLIN

IN APRIL the Irish Republic became one of the first of the current spate of sovereign borrowers to negotiate easier terms on an existing syndicated loan, taking advantage of better market conditions.

Now, however, it is adopting a different approach to reduce the cost of its foreign borrowing. Instead of renegotiating existing loans, Ireland aims to prepay as much as possible of its credits using funds raised on easier terms either through floating-rate notes (FRN) issues with longer maturities or in the fixed-rate bond market.

Its priorities are to prepay short-term maturities such as the multi-currency two-year credits arranged privately through Japanese banks and syndicated credits with higher margins, particularly those maturing in the late 1980s when the Republic faces a repayment hump. In both 1988 and 1989, repayments of existing debt are scheduled to top the £300m (\$391m) mark, which the Finance Ministry would like to reduce to about £200m. With only some £100m of existing debt to be rolled over next year, there should be scope for doing so. Assuming

that foreign borrowing next year will be around the same level as 1984 - at £1.3bn - that should provide £1bn in new money. This year, repayments amounted to £500m, leaving new money of £800m.

Ireland has already used part of the proceeds of three FRN issues - one of \$200m arranged by Merrill Lynch, another for the same amount by Deutsche Bank and most recently a £100m deal by Samuel Montagu - together with several Japanese private placements to prepay syndicated credits. Those prepaid so far either carried short maturities or margins of 1/2 or 3/4 percentage points over London interbank offered rate (Libor) and has now started prepaying Libor with margins of 1/2 point above Libor.

Dublin bankers point out that by using part of its £100m FRN funds (which were raised at 1/2 point over Libor over 10 years), to prepay the sterling tranche of a £400m multi-currency loan signed in the 1980s which carried a margin of 1/2 point over Libor, it has reduced the cost by 1/2 of a point.

Ireland's debt repayment schedule	
	(£m)
1987	650
1988	885
1989	925
1990	880

Part of the proceeds from the DM 200m 10-year bond which is to be issued in January will be used to prepay debt while the Ecu 100m raised on the fixed bond market this month will go towards next year's new money.

Ireland's total outstanding foreign debt currently stands at around \$8bn. Its debt service ratio is around 18 per cent this year but should drop to 10 per cent in 1985.

Since 1981, when it raised £1.2bn, Ireland has been reducing the level of its new foreign borrowing. This year the target for new money was £640m. Under the economic plan announced in the autumn, the aim is to "control" the amount raised abroad. The Department of Finance has already arranged foreign borrowings totalling £200m towards next year's gross foreign borrowing requirement.

In recent years Dublin has been able to raise increasing amounts domestically as liquidity has grown with the reduction in the balance of payments deficit. That has been reduced from 15 per cent of gross national product in 1981 to 5 per cent this year and the target is to bring it down to 3 per cent by 1987.

Banco Nacional do Desenvolvimento Economico
 U.S. \$50,000,000 Floating Rate Notes 1989

Notice is hereby given pursuant to the Terms and Conditions of the Notes that for the three months from 27th December, 1984 to 27th March, 1985 the Notes will carry an interest rate of 9% per annum. On 27th March, 1985 interest of U.S.\$22.50 will be due per U.S.\$1,000 Note and U.S.\$225.00 due per U.S.\$10,000 Note for Coupon No. 23.

European Banking Company Limited (Agent Bank)
 27th December, 1984

Weekly net asset value
Tokyo Pacific Holdings (Seaboard) N.V.
 on 21st December 1984, U.S. \$97.80

Listed on the Amsterdam Stock Exchange

Information: Pierson, Holding & Pierson N.V., Herengracht 214, 1016 BS Amsterdam.

Banco Nacional do Desenvolvimento Economico
 U.S. \$50,000,000 Floating Rate Notes 1989

Notice is hereby given pursuant to the Terms and Conditions of the Notes that for the three months from 27th December, 1984 to 27th March, 1985 the Notes will carry an interest rate of 9% per annum. On 27th March, 1985 interest of U.S.\$22.50 will be due per U.S.\$1,000 Note and U.S.\$225.00 due per U.S.\$10,000 Note for Coupon No. 23.

European Banking Company Limited (Agent Bank)
 27th December, 1984

Hapoalim International N.V.
 U.S. \$50,000,000

Guaranteed Floating Rate Notes 1988

For the six months 28 December 1984 to 28 June 1985 the Notes will carry an interest rate of 9 1/2% per annum. Coupon Value U.S.\$480.28. Listed on The Stock Exchange, London

BUILDING SOCIETIES SURVEY

It is proposed to publish a survey on the above subject on Saturday 16th February 1985.

For further details and advertising rates please contact
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 Financial Times, Bracken House
 10 Cannon Street, London EC4P 4BY
 Telephone 01-248 8000 ext. 4008

Table with 10 columns: Year, Ind. prod., Mfg. output, Eng. order, Retail vol., Retail value, Unemp., Vac. Includes data for 1983 and 1984.

Table with 10 columns: Year, Consumer goods, Invest. goods, Intmd. goods, Eng. output, Metal manuf., Textile, House, etc. Includes data for 1983 and 1984.

Table with 10 columns: Year, Export volume, Import volume, Visible balance, Current balance, Oil balance, Terms trade, Resv. trade, US\$Bn. Includes data for 1983 and 1984.

Table with 10 columns: Year, M0, M1, M3, Bank advances, Govt. lending, Base rate, % p.a. Includes data for 1983 and 1984.

Table with 10 columns: Year, Earnings, Basic materials, Wholsale, RPI, Foods, FT commodity, Strig. Includes data for 1983 and 1984.

Table with 10 columns: Year, High Low, Company, Price, Change, Gross Yield, P/E, Fully Paid. Includes data for 1983 and 1984.

NOTICE CANON INC. Re: 6 3/4% U.S. Dollar Convertible Debentures due December 31, 1994 and adjustment of conversion price to be made as a result of the authorization of free share distribution.

Relocation manoeuvre by Good Relations

By Ray Maughan Good Relations, the first public relations company to be quoted on the London stock market, is pulling its corporate affairs and city communications divisions out of the Square Mile...

Amalgamated Estates £3m bid for L & M Securities

BY MARTIN DICKSON

Amalgamated Estates, the property investment company, is making a £3.3m all-paper bid for London and Manchester Securities, a property development company quoted on the Unlisted Securities Market.

BOARD MEETINGS

Table with 2 columns: Company Name, Date. Lists meetings for Black (Peter), Hayes Publishing, Jovis Street, etc.

Rotaprint warns on full year outcome as losses deepen

THERE HAS been a setback at Rotaprint, maker of offset lithographic printing machines. The loss for the first half has shot up from £168,000 to £435,000.

BIDS AND DEALS IN BRIEF

BAT Industries has announced details of the unsecured loan stock of £190m loan note alternative for its £64m bid for Hambro Life Assurance.

ICC Oil profits rise

Higher taxable profits of £416,000, against a restated £369,000, were attained by ICC Oil Services, a USM stock engaged in corrosion control/specialist coatings, industrial services, building cleaning, restoration and preservation.

COMPANY NEWS IN BRIEF

A slightly lower pre-tax loss of £74,000 compared with £77,000 was incurred by Russell Brothers (Fastington), specialist joinery and exhibition contractor, for the half year to August 31 1984.

LADBROKE INDEX Based on FT Index 925-929 (+4) Tel: 01-427 4411

BANCO ESPRITO SANTO E COMERCIAL DE LISBOA US\$30,000,000 Floating Rate Notes due 1990

This advertisement is issued in compliance with the requirements of the Council of The Stock Exchange. It does not constitute an invitation to the public to subscribe for or purchase any shares.

FPL GROUP FPL Group, Inc. (Incorporated with limited liability under the laws of the State of Florida, United States of America)

N.V. BENEVENT On the 25th December 1984, on the initiative of Investco NV, in co-operation with venture founders (Wilsham, Massachusetts, USA), has been incorporated the Belgian limited company 'Beneventure Founders Venture Capital Fund NV' or 'Benevent' for short.

GROVEBELL GROUP PLC (Incorporated in England with limited liability - No. 127798) 1,884,541 7.5% convertible redeemable cumulative preference shares of £1 each fully paid ('new 7.5% preference shares')

National Westminster Bank PLC U.S. \$150,000,000 Floating Rate Capital Notes 1990

TELEPHONE 01-246 8086 for the FT INTERNATIONAL MARKET REPORTS

WORLD STOCK MARKETS

WALL STREET

Response to rate cut dwindles

LITTLE further response emerged on Wall Street yesterday to the half-point cut in the federal discount rate...

Trending was light, with turnover down to about half of Monday's level and prices trading water around Monday's closing values.

At the close the Dow Jones industrial average was down 1.22 to 1,208.92. There was some disappointment at the sluggish response on Monday from the bond market to the cut in discount rate...

The Federal Reserve was accommodative towards pressures of the holiday period, announcing \$2bn in customer repurchases when federal funds edged up

Stock markets in London and most other European centres remained closed yesterday, as did those in Hong Kong, Australia, South Africa and Canada.

to 8 per cent and then buying bills after the Treasury sale of \$6.2bn of four-year notes. A further \$2.4bn in Treasury securities are up for auction over the coming week.

The market opened with a fall of 2.65 points on the Dow average, which had climbed by 11.16 on Monday, in its first response to the Fed's cut in the discount rate.

IBM at \$123 1/4 shed an early 3/4. General Motors traded unchanged at \$78 and Ford held at \$45 1/4. Chrysler, which is adding production capacity, gained 3/4 to \$31 1/4.

Phillips Petroleum was again to the fore on the active stocks list, rallying 3/4 to \$45 1/4 after falling by nearly \$10 on Monday on news of the plan to restructure the company in order to ward off the bid from the Boone Pickens partnership.

Mesa Petroleum, the Pickens group, added \$ 1/4 to \$28 1/4 in subdued trading. Mr Pickens and his partners are guaranteed a profit of \$89m from the Phillips plan.

The hope of replacing Phillips in Mr Pickens's affection pushed several speculative oil stocks ahead. Unocal added 3/4 to \$38 1/4 and Sun Oil added a similar amount to \$47 1/4.

Home computer issues steadied, with Commodore International recovering by 3/4 to \$17 after last week's disappointing sales forecast. Retail issues were sluggish, while awaiting details of Christmas trading.

In the credit markets, Treasury bill and money-market rates were narrowly mixed in quiet trading. With most institutions now out of the market until the year-end, bonds lacked support. The key 1 1/2 per cent bond of 2014 fell 1/2 to 102 1/4.

TOKYO

Early gains swiftly give way

LATE profit-taking pressure eroded early gains to leave share prices slightly higher in Tokyo yesterday, writes Shigeo Nishiwaki of Jiji Press.

The Nikkei-Dow market average of 225 select issues stood more than 47 points above the previous day's close at one point but finished at 11,494.59, up 2.30. The Tokyo Stock Exchange index of all stocks listed on the first section rose 6.00 to 904.99, topping 900 for the first time. Volume swelled to 759.65m shares, from Tuesday's 462.48m.

The rises in the indices reflected the strong performance of financial and large-capital stocks. Declines, however, outnumbered advances by 405 to 339, with 128 issues unchanged.

The market got off to a fast start as investors bought lagging large-capital stocks and financial and incentive-backed issues, hoping for further price gains in the new year. Incentive-backed issues, however, later came under heavy selling pressure, while blue chips were bearish throughout the day.

Kansai Electric Power jumped Y40 to Y1,580, buoyed by a decreasing interest burden because of the fall in interest rates and the expected deregulation of Japan's electric power industry.

Some large-capital chemicals and property issues were traded briskly. Mitsubishi Estate gained Y27 to Y597 and Nippon Yusen Y5 to Y260. Toyo Soda advanced an initial Y13 but closed Y1 lower at Y370.

Financial issues were in the spotlight. Sumitomo Bank added Y100 to a record Y1,840, eclipsing the previous high of Y1,760 set on December 7. Tokio Marine

and Fire rose Y28 to Y735. Nomura Securities Y44 to Y899 and Sumitomo Trust and Banking Y60 to Y700.

Some pharmaceuticals moved well. Supported by continued investor interest in biotechnology, Asahi Chemical topped the actives list with 83.5m shares changing hands, rising Y14 to Y714. Yamaguchi and Fujisawa advanced Y140 and Y110 to Y2,480 and Y1,190 respectively.

Small-lot selling sent blue chips lower on a broad front. Matsushita Electric Industrial lost Y10 to Y1,550, Sony Y40 to Y3,350 and Kyocera Y150 to Y8,920.

Bond prices firmed slightly, reflecting active buying by securities companies. The yield on the benchmark 7.3 per cent government bonds, maturing in December 1993, dropped to 6.490 per cent, from Tuesday's 6.525.

EUROPE

THE DOMINANT feature of a firm Paris session yesterday was a resumption of dealings in Creusot-Loire as well as in Schneider, which has been the effective parent of the now-liquidated engineering group.

Their return after an absence of nearly 6 1/2 months was short-lived, though - both were again suspended amid a hefty imbalance of orders. A writer of sell orders hit Creusot-Loire, due to be traded on the forward market until January 24 to allow accounts to be settled. Against a last quotation of Ffr 25.50 on June 13, it was indicated at Ffr 12.

Schneider, halted the same day at Ffr 88.50, drew vigorous buying demand and an indicative quotation of Ffr 107.

Overall, an active start died away well before the finish. Good gains remained for issues such as Michelin, Ffr 25 ahead at Ffr 750, and Radiotechnique, up Ffr 9 to Ffr 213. Construction stocks were poor, however - SGE-SE fell Ffr 5.70 to Ffr 42.50 and Bouygues Ffr 10 to Ffr 680.

Electrical utilities led a cautious Madrid rally. Hidrola and Iberduero added 1.2 and 1.3 points respectively to 78.7 per cent and 83 per cent of nominal value. Banks weakened.

SINGAPORE

MALAYSIAN issues were the prime focus of selective Singapore buying, attributed in part to a reported easing of tensions within the ruling Kuala Lumpur coalition.

By contrast, the dent in the Singapore Government's parliamentary hold made in the weekend elections there had little impact, and quiet trading overall took the Straits Times industrial index 8.68 higher to 816.38.

Malaysian-incorporated issues drew the biggest activity: volume leader Textile Corp jumped 25 cents to S\$1.61 and Malayan United Industries 32 cents to S\$3.24.

Indices

Table of stock indices for New York, London, Tokyo, and other markets. Columns include index name, date, and values for 1984 and 1983.

NEW YORK ACTIVE STOCKS

Table of active stock prices in New York, including Commodore, ATT, Exxon, IBM, Ford Motor, and Mobil.

NOTICE OF REDEMPTION

Azienda Autonoma Delle Ferrovie Dello Stato

8 1/2% Sinking Fund Bonds Due 1986. Direct and Unconditional General Obligation of the Republic of Italy.

NOTICE IS HEREBY GIVEN that pursuant to Sections 4 and 6 of the Fiscal Agency Agreement and Sections 5 and 6 of Exhibit A dated January 15, 1971 between Azienda Autonoma Delle Ferrovie Dello Stato, "Issuer" with the intervention of the Minister of the Treasury of the Republic of Italy and Chemical Bank, "Fiscal Agent," the bonds bearing the following serial numbers have been drawn for redemption on February 1, 1985 by operation of the Sinking Fund at the Redemption Price of 100% of the principal amount thereof, together with accrued interest to the date thereof, and that from and after such date fixed for redemption interest thereon will cease to accrue.

Large table of bond serial numbers for redemption, organized in columns with serial numbers and corresponding values.

The above numbered bonds will be redeemed at the principal offices of the Fiscal Agent, Chemical Bank in New York City or at the main offices of Chemical Bank and S. G. Warburg & Co., Limited in London, the main office of Banca Nazionale del Lavoro in Milan and Rome, the main office of Banque Lambert S.C.S. in Amsterdam, the main office of Banque Lambert-Luxembourg S.A. in Luxembourg, the main offices of First National City Bank in Amsterdam, Frankfurt am Main and Paris and the main office of Lavoro Bank A. G. in Zurich, upon surrender of such bonds for payment and cancellation.

Dated: December 27, 1984. CHEMICAL BANK, Fiscal Agent

OVER-THE-COUNTER

Nasdaq national market, 2.30pm prices

Table of over-the-counter stock prices, including companies like AEL, AFG, AIC, AIT, AJP, etc.

LONDON

Monday's chief price changes

Table of London stock price changes, including RISES (Bombardier, Brown, etc.) and FALLS (Baird, etc.).

Continued on Page 16

NEW YORK STOCK EXCHANGE COMPOSITE CLOSING PRICES

Main table containing stock prices for various companies, organized in columns with headers for stock names, prices, and other market data.

Continued on Page 15

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AMERICAN STOCK EXCHANGE COMPOSITE CLOSING PRICES

Main table of American stock exchange closing prices, organized into columns by stock category (e.g., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).

Continued on Page 16

NEW YORK STOCK EXCHANGE COMPOSITE CLOSING PRICES

Main table of New York stock exchange closing prices, organized into columns by stock category (e.g., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).

Dividend information and financial details for various stocks, including dates and amounts.

Advertisement for Financial Times in Frankfurt, featuring the text 'Sie erhalten die Financial Times im Abonnement durch Boten zugestellt.' and 'Get your News early in Frankfurt'.

WORLD STOCK MARKETS

Table of world stock markets including Germany, Austria, Norway, Australia, Japan, and Over-the-Counter. It lists various stock indices and individual stock prices with their respective changes.

AMERICAN STOCK EXCHANGE CLOSING PRICES

Table of American stock exchange closing prices, organized by sector (e.g., 12 Month, 12 Month, etc.) and listing individual stock prices and their daily changes.

Advertisement for 'Get your News early in Hamburg' featuring the Financial Times. It includes contact information for Benjamin M. Hughes and the address: Centre d'Affaires Le Louvre, 168, rue de Rivoli, 75044 Paris Cedex 01.

MARKET REPORT

RECENT ISSUES

Markets begin extended trading Account in confident mood

Account Dealing Dates Option
*First Declared Last Account Dealings Dec 28 Dec 29 Dec 30 Dec 31 Jan 1 Jan 2 Jan 3 Jan 4 Jan 5 Jan 6 Jan 7 Jan 8 Jan 9 Jan 10 Jan 11 Jan 12 Jan 13 Jan 14 Jan 15 Jan 16 Jan 17 Jan 18 Jan 19 Jan 20 Jan 21 Jan 22 Jan 23 Jan 24 Jan 25 Jan 26 Jan 27 Jan 28 Jan 29 Jan 30 Jan 31

The shortened pre-Christmas session, the first of a three-week trading account on the London Stock Exchange, was well-attended on Monday. Trade was relatively active from the opening with investors showing a renewed enthusiasm for leading equities and for the advance guard of New Year Press tips.

Sentiment in the latter area was given a much-needed prop by the weekend news of a cut to 8 per cent in the key Federal Reserve Discount rate. The move was not entirely unexpected but it still generated a better feeling about interest rates both here and in America.

Leading industrial shares achieved improvements of only a penny or two but, after the previous two-day setback brought the FT Ordinary share index back over 18 points from its all-time high of 942.6, the tone remained steady.

The major clearing banks edged higher under the lead of NatWest, 8 up at 588p. Lloyds improved 4 to 522p and Barclays hardened 3 to 577p.

Seasonal cheer among Breweries proved to be of a selective nature. The leaders traded quietly and showed little alteration with the noteworthy exception of Arthur Guinness which started 11 to a 1984 peak of 213p following the £11.9m acquisition of Neighbourhood Stores.

Building issues attracted occasional buying interest. EPR Industries, 20p, and Redland, 25p, both improved a couple of pence.

ICI settled a couple of pence off at 740p, but other Chemicals continued to improve. Coaltex attracted fresh support and

hardened 2 to 228p, while Coates Brothers A put on 6 to 148p. Ellis and Eversard firmed 4 to 218p and Australias edged higher, in the leaders Western Mining put on 3 to 200p.

Secondary Stores attracted occasional support. Dixons responded with a rise of 6 to 864p, while Mail-order, high-lighted Empire, 8 dearer at 98p.

Engineering shares strayed from their previous closing levels, although Delta encountered further sporadic demand and put on 5 at 188p.

Seasonal considerations directed selective support towards Food Retailers. Associated Dairies hardened a couple of pence to 184p, as did Artyl, to 268p.

Among the occasional movements in the miscellaneous industrial sector, Gestetner A firmed 4 to 68p on an anticipated takeover bid.

The Leisure sector displayed several noteworthy movements. Pinnacle Dance Studios attracted late on US support, while Intasun, which recently pulled out of the bidding for Comfort Hotels, rose 4 to 127p.

Movements among Motors generally favoured holders. Jaguar attracted late on US support, while Rover improved 8 more to a new high of 235p.

Financials mirrored the performance of Golds and gained ground where changed. Australias edged higher, in the leaders Western Mining put on 3 to 200p.

FINANCIAL TIMES STOCK INDICES

Table with columns for Dec 24, Dec 19, Dec 20, Dec 18, Dec 17, Dec 16, Dec 15, Dec 14, Dec 13, Dec 12, Dec 11, Dec 10, Dec 9, Dec 8, Dec 7, Dec 6, Dec 5, Dec 4, Dec 3, Dec 2, Dec 1, 1984, 1983, 1982, 1981, 1980, 1979, 1978, 1977, 1976, 1975, 1974, 1973, 1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1922, 1921, 1920, 1919, 1918, 1917, 1916, 1915, 1914, 1913, 1912, 1911, 1910, 1909, 1908, 1907, 1906, 1905, 1904, 1903, 1902, 1901, 1900, 1899, 1898, 1897, 1896, 1895, 1894, 1893, 1892, 1891, 1890, 1889, 1888, 1887, 1886, 1885, 1884, 1883, 1882, 1881, 1880, 1879, 1878, 1877, 1876, 1875, 1874, 1873, 1872, 1871, 1870, 1869, 1868, 1867, 1866, 1865, 1864, 1863, 1862, 1861, 1860, 1859, 1858, 1857, 1856, 1855, 1854, 1853, 1852, 1851, 1850, 1849, 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1018, 1017, 1016, 1015, 1014, 1013, 1012, 1011, 1010, 1009, 1008, 1007, 1006, 1005, 1004, 1003, 1002, 1001, 1000, 999, 998, 997, 996, 995, 994, 993, 992, 991, 990, 989, 988, 987, 986, 985, 984, 983, 982, 981, 980, 979, 978, 977, 976, 975, 974, 973, 972, 971, 970, 969, 968, 967, 966, 965, 964, 963, 962, 961, 960, 959, 958, 957, 956, 955, 954, 953, 952, 951, 950, 949, 948, 947, 946, 945, 944, 943, 942, 941, 940, 939, 938, 937, 936, 935, 934, 933, 932, 931, 930, 929, 928, 927, 926, 925, 924, 923, 922, 921, 920, 919, 918, 917, 916, 915, 914, 913, 912, 911, 910, 909, 908, 907, 906, 905, 904, 903, 902, 901, 900, 899, 898, 897, 896, 895, 894, 893, 892, 891, 890, 889, 888, 887, 886, 885, 884, 883, 882, 881, 880, 879, 878, 877, 876, 875, 874, 873, 872, 871, 870, 869, 868, 867, 866, 865, 864, 863, 862, 861, 860, 859, 858, 857, 856, 855, 854, 853, 852, 851, 850, 849, 848, 847, 846, 845, 844, 843, 842, 841, 840, 839, 838, 837, 836, 835, 834, 833, 832, 831, 830, 829, 828, 827, 826, 825, 824, 823, 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AUTHORISED UNIT TRUSTS

Table listing various unit trusts such as Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

Table listing unit trusts including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

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F.T. CROSSWORD PUZZLE NO. 5603

- ACROSS
1 Put down for an indoor game (6)
4 Purchase from bar before time (8)
9 Slovenly in duty perhaps (6)
10 Quality that needs raising? (8)
12 Confiscates one thousand sterling (8)
13 And 22 down: A judge's opinion, by the way (6, 6)
15 Accustomed to being employed (4)
16 Set off on horseback? (7)
20 Canning employed in any lawless state? (7)
21 No excuse for pleasure, that's certain (4)
25 I'm not one to weaken (6)
26 Well-known line in footwear (8)
28 Reputed becoming unwell? (5, 3)
29 Give acute distress in school (6)
30 Duck a orange? (8)
31 Half of us on door watch (6)
DOWN
1 Press forward with debts though not genuine (8)
2 Not utilised, like a neglected barometer? (8)
3 Elementary sum I do get wrong (6)
5 Creatures with feet going in two directions (4)
6 Entitled to directions on how to turn blonde (8)

Crossword puzzle grid with numbers 1-31 indicating starting positions for the clues.

Solution to Puzzle No. 5601, showing the filled-in crossword grid.

Table listing unit trusts including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

Table listing unit trusts including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

Table listing unit trusts including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

FT UNIT TRUST INFORMATION SERVICE

Main table listing unit trusts including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others, with columns for name, manager, and performance metrics.

INSURANCES

Table listing insurance companies and their services, including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others.

Table listing insurance companies and their services, including Britannia Group-Corbuond, Abbey Unit Trust, High Income, and others.

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INSURANCE, OVERSEAS & MONEY FUNDS

Handwritten signature: "Johnnie L. G."

Table of insurance and money funds, including Liberty Life Assurance Co Ltd, National Prudential Institutions, and various international funds.

Table of insurance and money funds, including Sars & Pronger Group, Target Life Assurance Co Ltd, and various international funds.

Table of insurance and money funds, including C&L Investments (IOM) Ltd, British Overseas Investment Mgmt Ltd, and various international funds.

Table of insurance and money funds, including Midland Bank Trust Corp (Jersey) Ltd, Target Trust Mngrs (Jersey) Ltd, and various international funds.

OFFSHORE AND OVERSEAS

Table of offshore and overseas funds, including Artibeaux Investment Fund SA, Adly Investment, and various international funds.

Money Market Bank Accounts

Table of money market bank accounts, including The Money Market, NTA, and various international banks.

Money Market Trust Funds

Table of money market trust funds, including Athlon Funds, British Overseas Investment Mgmt Ltd, and various international funds.

NOTES: Interest rates given both as a percentage and as a rate of return. Prices are in pence unless otherwise stated. All prices are shown in pence.

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INDUSTRIALS—Continued

Table of industrial stock prices including companies like British Petroleum, Shell, and ICI.

LEISURE—Continued

Table of leisure stock prices including companies like British Airways and British Telecom.

PROPERTY—Continued

Table of property stock prices including companies like British Land and Wimpey.

INVESTMENT TRUSTS—Cont.

Table of investment trust prices including various funds like Fidelity and Invesco.

OIL AND GAS—Continued

Table of oil and gas stock prices including companies like BP and Shell.

INSURANCES

Table of insurance stock prices including companies like Prudential and Sun Life.

PROPERTY—Continued

Table of property stock prices including companies like British Land and Wimpey.

MOTORS, AIRCRAFT TRADES

Table of motor and aircraft trade stock prices including companies like British Airways and British Telecom.

COMMERCIAL VEHICLES

Table of commercial vehicle stock prices including companies like British Airways and British Telecom.

SHIPPING

Table of shipping stock prices including companies like British Airways and British Telecom.

SHOES AND LEATHER

Table of shoes and leather stock prices including companies like British Airways and British Telecom.

SOUTH AFRICANS

Table of South African stock prices including companies like Anglo American and De Beers.

TEXTILES

Table of textile stock prices including companies like British Airways and British Telecom.

TOBACCO

Table of tobacco stock prices including companies like British Airways and British Telecom.

PAPER, PRINTING ADVERTISING

Table of paper, printing, and advertising stock prices including companies like British Airways and British Telecom.

FINANCE, LAND, ETC

Table of finance, land, and other stock prices including companies like British Airways and British Telecom.

TRUSTS, FINANCE, LAND

Table of trusts, finance, and land stock prices including companies like British Airways and British Telecom.

PROPERTY

Table of property stock prices including companies like British Land and Wimpey.

FINANCE, LAND, ETC

Table of finance, land, and other stock prices including companies like British Airways and British Telecom.

PLANTATIONS

Table of plantation stock prices including companies like British Airways and British Telecom.

MISCELLANEOUS

Table of miscellaneous stock prices including companies like British Airways and British Telecom.

SANYO INTERNATIONAL LTD. advertisement with contact information for London and Tokyo.

Table of international stock prices under the heading 'MINES—Continued'.

NOTES section containing various financial notes and disclosures.

PLANTATIONS section containing information about plantation stocks.

MISCELLANEOUS section containing information about various other stocks.

REGIONAL & IRISH STOCKS section containing information about regional and Irish stocks.

OPTIONS—3-month call rates section containing information about options and call rates.

Why on earth do we want businessmen without computers to read an ad about software?

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16 BIT Computing

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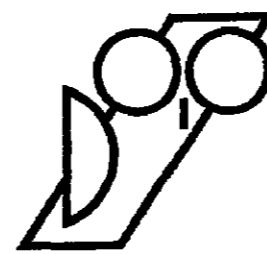
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CURRENCIES, MONEY and CAPITAL MARKETS

FOREIGN EXCHANGES

Quiet trading

Trading was predictably quiet in currency markets on Monday. The little business seen occurred early on and was confined to a few small commercial orders. Consequently the dollar showed a small improvement and sterling also managed a small rise. Sterling's index opened at 73.3 and dipped briefly at 10.30 before recovering to finish at 73.6, up from 73.2 on Friday.

franc at Ffr 11.33 from Ffr 11.22 and Sfr 1.50 from Sfr 1.49. A cut in the U.S. discount rate late on Friday to 8 per cent gave the pound some comfort with longer-term domestic interest rates steadier. However, any improvement in sentiment in currency markets may not be seen until after the New Year. The dollar was a little firmer overall, helped by a few small orders during the morning. It finished at DM 3.1205, up from DM 3.1185, and SwFr 2.5725 from SwFr 2.5665. Against the yen it was a little firmer at ¥247.95 compared with ¥247.85. It was quoted a little lower in terms of the French franc at Ffr 11.33 from Ffr 11.22. On Bank of England figures, the dollar's index rose to 143.6 from 143.5.

£ in New York

Table with columns: December 24, Prev. close, 2 Spot, 1 month, 3 months, 12 months.

MONEY RATES

Table with columns: New York (Lunchtime), Prime rate, Bank loan rate, Fed funds, No Fed intervention.

STERLING EXCHANGE RATE INDEX

Table with columns: Dec 24, Previous, 8.30 am, 9.00 am, 10.00 am, 11.00 am, Noon, 1.00 pm, 2.00 pm, 3.00 pm, 4.00 pm.

TREASURY BILLS

Table with columns: One month, Two month, Three month, Six month, One year.

DOLLAR SPOT-FORWARD AGAINST DOLLAR

Table with columns: Dec 24, Day's spread, Close, One month, % Three months, % Six months.

EMS EUROPEAN CURRENCY UNIT RATES

Table with columns: Currency, Unit, % change from Dec 24, % change from Dec 23, % change from Dec 22.

CURRENCY MOVEMENTS

Table with columns: Dec 24, Bank of England, Morgan Guaranty, U.S. dollar, Sterling, etc.

OTHER CURRENCIES

Table with columns: Dec 24, Argentina, Australia, Brazil, Canada, etc.

POUND SPOT-FORWARD AGAINST POUND

Table with columns: Dec 24, Day's spread, Close, One month, % Three months, % Six months.

EXCHANGE CROSS RATES

Table with columns: Dec 24, Pound Sterling, U.S. Dollar, Deutsche Mark, Japanese Yen, etc.

No change

Interest rates remained steady on Monday in the London money market with trading at a bare minimum. The Bank of England forecast a shortage of around £50m and gave assistance in the morning of £68m. Factors affecting the market included maturing assistance and a take up of Treasury bills together draining £37m and Eschequer transactions £170m. On the other hand there was a fall in the note circulation of £375m and banks brought forward balances £90m above target. The morning help comprised purchases of £68m of eligible bank bills in band 2 (15-33 days) at 91 per cent.

LONDON FUTURES

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

LONDON MONEY RATES

Table with columns: Dec 24, Sterling, Interbank, Local Authority Deposits, etc.

STERLING £25,000

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

STERLING £25,000

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

EURO-CURRENCY INTEREST RATES

Table with columns: Dec 24, Sterling, U.S. Dollar, Canadian Dollar, etc.

CHICAGO FUTURES

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

U.S. TREASURY BILLS

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

U.S. TREASURY BONDS

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

CERT DEPOSIT

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

FT LONDON INTERBANK FIXING

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

MONEY RATES

Table with columns: Dec 24, Close, High, Low, Prev, March, June, Sept, Dec.

EURO-CURRENCY INTEREST RATES

Table with columns: Dec 24, Sterling, U.S. Dollar, Canadian Dollar, etc.

£ WORLD VALUE OF THE POUND

The table below gives the latest available rates of exchange for the pound against various currencies on December 24, 1984. In some cases rates are nominal. Market rates are the average of buying and selling rates except where they are shown to be otherwise. In some cases market rates have been calculated from those of foreign currencies to which they are tied.

Large table with columns: COUNTRY, CURRENCY, VALUE OF £ STERLING.

* Rate is the transfer market (controlling). (1) Now one official rate. (2) Based on gross rates against Russian rouble. (3) Preferential rate for priority imports such as foodstuffs. (4) Preferential rate for public sector debt and essential imports. (5) Preferential rate. (6) Free rate for luxury imports. (7) Parallel rate. (8) Rate for remittances of foreign currency by Egyptians working abroad and tourists. (9) Banknote rate. (10) Rate for exports. (11) Rate for imports. (12) Rate for essential imports. (13) Nearly all business transactions.

Ente Nazionale per l'Energia Elettrica (ENEL) £100,000,000 Guaranteed Floating Rate Notes 1993. The Republic of Italy. S.G. Warburg & Co. Ltd. Fiscal Agent. BASE LENDING RATES. NOTICE OF PREPAYMENT. The Long-Term Credit Bank of Japan, Ltd. Floating Rate Certificate of Deposit.

THE MANAGEMENT PAGE

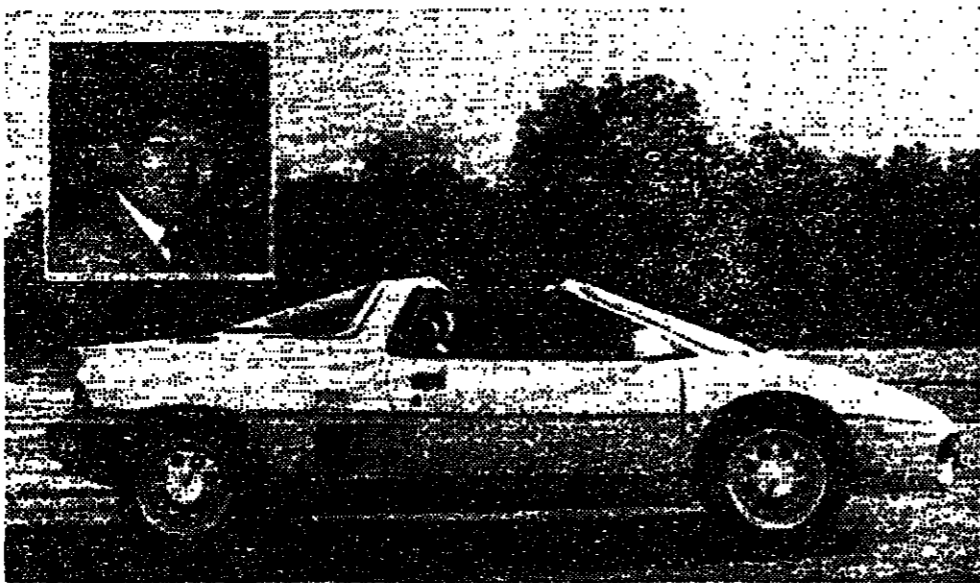
EDITED BY CHRISTOPHER LORENZ

SOUTH KOREAN car maker Young Kim shrugs: "I tried to get the passenger seats made there. But no way. The cost was much higher. I can get them here for two-thirds the price."

This sounds like the start of another saga about the competitiveness of UK parts suppliers.

It is not.

For while Kim is Korean, he makes his cars in the UK. And he was discussing the inability of Korean suppliers to match the prices of the British.



Young Kim and the Solo, his latest creation

Panther on the prowl

John Griffiths reports on a South Korean's efforts to save a UK specialist car maker

Kim, 46, is chairman of Panther Car Company, on which he—or rather the Jindo industrial group owned by himself and his four brothers—spent £300,000 to retrieve from receivership in 1980. Since then a new manufacturing regime has been installed, bringing together Korean and British components, and a management style introduced which owes more to Kim's respect for British workers than to traditional practice in UK industry.

This year, Panther has produced about 600 versions of the Kallista, a two-seater reminiscent of 1930s touring cars, at its Byfleet, Surrey base. Next year it is hoping for a return to profitability.

Kim's comparison of seat prices provides a partial explanation of why his foray into car manufacture is taking place in England, not Korea.

"The Koreans could not match the price because they do not have the know-how, which can more than compensate for the fact that Korean labour rates are a quarter of those in Britain (Jindo pays its Korean shopfloor workers an average of £1.60 an hour, its British equivalent is £6)."

Next year Kim will use what he sees as the "know-how" advantage to start making the planned transition from being a producer of cars appealing mainly to a nostalgic motoring fringe, to one aiming squarely at the heart of the modern sports-car market. Implicit in the move is a quintupling of output, and a further substantial increase in employment over the current 162. Only a handful of employees were left when the receivers were called in with Panther owing about £1m four years ago.

To the output of the Kallista will be added the Solo, a 130-hp mid-engine two-seater of dramatic, modern styling with its chassis designed by Len Bailey, one of the team which produced Ford's GT40 racing car of the 1960s.

Kim intends to take Panther from turnover of just over £5m this year—a third contributed by a conversions and a coachwork operation which pro-

duces exotic variations on luxury cars for wealthy, mainly foreign buyers—to well over £20m a year by 1990.

This will entail calling on Jindo's extensive metal fabricating facilities, and shipped to the UK in Jindo containers for assembly using Ford mechanicals and other parts from some 127 UK suppliers. For the American market chassis will be shipped direct from Korea for assembly.

Kim's interest in UK car manufacture stems from the obsession he and his brothers have had with "know-how" since the late 1970s.

Jindo is a disparate group: it makes 20,000 containers a year in Korea, is a military subcontractor, makes abrasives and has two trading arms—one in furs, the other in raw goods. There are incidents like a car rental business on Guam.

The brothers' thinking was that "if we could buy sufficient know-how, we could eventually get to building anything."

It was while crawling through the UK, talking to companies such as York Trailer on how to improve manufacturing methods, that Kim first heard about Panther. His former

owner, Robert Jankel, had tried to expand the company too rapidly, with a variety of cars, and had come unstuck.

Four years of hauling the company back towards viability has done nothing to diminish Kim's respect for British expertise in being able to design, develop and put together a complex product like a car—and to supply many components sufficiently price-competitively to make the cars affordable.

But it has left him with scant respect for the UK financial sector: "what I have learned about British banks is that they are prepared to lend you money only after you no longer need it," he remarks. Indeed, the bulk of the finance for bringing the Solo to the market—including the U.S. where obtaining safety and legislative approval is highly expensive—as well as installing extra assembly plant at Byfleet is being raised in the Korean banking network.

The U.S. provides a hallmark of how seriously Panther is approaching the business—it is potentially the single most profitable market, although the most fraught with risk. In going for full certification it will have to pay £156,000 on

the Kallista and another \$220,000 to get Solo through. Despite all the aggravations of the long haulback from bankruptcy, and with the prospect of a return on the long investment at last having into sight, Kim is starting to feel the game may be worth the candle.

He now admits that he was "very naive about the problems that we have real feeling for each other, which is very, very important. I wanted to start a newsletter for the company—the managers said they didn't have time, so the line guys did it. The three team leaders took me out to dinner recently, with their wives. I don't usually go because my wife's not here. But we had a good time—even if all they want to talk about is cars."

There's a club atmosphere at the factory. The reception area after working hours sometimes resembles a coffee shop, with employees lingering for a chat. Kim has been working out where to put a piano in the place to live up to break times. He has been quite happy to let the plant be used by local associations, such as the arts society, at weekends when production is not actually in progress.

For all that, Kim confesses himself still puzzled by British middle management. "I'm simply curious about what's happening and they're my main strength—my fellaers there on the shop floor."

Perhaps, it's still a matter of time, he suggests, before all the working relationships fall finally into place. And he says, it must involve the middle management coming to take a long-term view of the company—"because right now I have nothing to share with them except the future..."

come to terms with the habits and practices of UK shopfloor workers and middle management. "I knew nothing about the qualifications of UK employees. When I interviewed in Korea—they come; they need a job—they would not dare interview me or question my own capability. But in England, it was for me to convince them. But I did it—I wanted them to know what shape the company was in; I did not want to give them a false impression."

He was tempted to bring in Korean managers more attuned to his style of operating—but decided against it. "I realised we would have a big communications gap with the workers."

Panther has no union, equally, there is also a total absence of rigid work force disciplines. Kim insists that this perception of Far Eastern shopfloors is in any case wrong. "The Korean workforce is much misunderstood—foreigners think it is militaristic on the shopfloor—in fact, it's a very open, friendly relationship with management."

If there is a difference between his Korean and UK shopfloor employees, says Kim, it's that we have real feeling for each other, which is very, very important.

But newly published papers from a conference held at Robinson College, Cambridge, demonstrate clearly that nationalised industry chairmen and boards have more freedom to manage than they often admit and could do much more to manage effectively the resources they have. They are under increasing pressure to do so because both the present Comptroller and Auditor General, Sir Gordon Downey, and the Public Accounts Commission are looking in detail at what each industry is up to.

Professor Bernard Taylor, of Henley—the Management College, identifies the principal difficulty early in this most valuable book: "In practice the majority of managers and the task of strategic planning difficult and they require a good deal of help. This is partly a matter of temperament. Operating managers tend to be chosen for their ability to get things done and it has been well said that a man of action, forced into a state of thought, is unhappy

A problem with planning

Robin Pauley on strategic challenges facing state industry

BRITAIN'S nationalised industries have tended to be stubborn mules, remaining a persistent drain on the Government's feedstore while contributing little, if anything, to their keep. Different governments have in recent years made more serious attempts to tackle these difficulties more radically. The present Government has decided to try to swing round the management and financial performance of the least hopeless cases and move them off into the private sector.

A key element in improving the performance of nationalised industries is strategic planning and it is clear that to a great extent the political priorities in Westminster, with perpetual changes of policy and emphasis, have done a great deal to undermine sensible strategic thought within these industries.

John Grievie Smith follows up by stressing the need, particularly relevant in nationalised industries, for planning for uncertainty and outlining how this dictates that a variety of outcomes must always be sensitively analysed. "The immediate need is not so much to disseminate knowledge of current techniques among those operating at a professional level in the industries as to engender an atmosphere at board level and in discussions with government more amenable to the consideration of a wider series of projections than the traditional one best guess" (my emphasis).

The unsatisfactory nature of the principal instrument of financial control within the state industries—the External Financing Limit or EFL—rears its ugly head. Ian Byatt, of the Treasury, notes that the basic framework of government control of nationalised industries is a financial one but that EFLs cannot be a precision instrument in that framework. And Andrew Lickierman of the London Business School complains that ministers do not always understand enough about the impact of policy changes on the industries for which they are responsible.

This highlights the main problem; the difficulty of reconciling a system of public expenditure targets and controls run on a financial year by financial year basis—sometimes with mid-year revisions such as the July 1983 package of emergency cuts including an arbitrary 2 per cent of EFLs—with the concept of strategic planning over a five- or ten-year period.

For those industries destined to remain in the state sector—but with tough demands for efficiency, profits and a real rate of return on capital utilised—what is the way forward in organising

for change, assuming government will start to regard its hand-off policy as just that?

Increased competition within the public sector will clearly remain a priority and this raises a problem for both employees and management, both of which have vested interests in preserving the status quo.

As John Grievie Smith notes, the industries are at their most vulnerable while demand for their products is depressed by competition from products which are regarded as the province of another industry—coal by gas, or tinplate by aluminium—or by the stagnation of the British economy.

Increased competition to be constructive, should surely have as a concomitant the removal of restrictions on the public sector's ability to respond, rather than additional restraints, he adds.

The difficulties of government and management trying to break out of the traditional mould of vested interest defending the status quo are graphically highlighted in the origins of the current dispute between the coal board and miners.

If there is one common theme among the variety of papers it is the need not so much for better strategic management in nationalised industries as for an environment of stability and understanding between government and boards and agreed objectives which go far beyond the political constraints of the out-turn of each year's public sector borrowing requirement. A more depressing impression is that while the need for change appears to be commonly agreed, the message for those eagerly awaiting it remains: Don't hold your breath.

Strategic Planning in Nationalised Industries, edited by John Grievie Smith, Macmillan, £25.

Business courses

Corporate strategy by design. Boston, January 23-25. Fee: \$750. Details from Design Management Institute, 621 Huntington Avenue, Boston, MA 02115 U.S. Tel 617 232-4496. Telex: 294116.

Assessing and improving the quality of financial services: how research can help. Zurich.

February 3-6. Fee: EFMA/ESOMAR members SWFRs 1147. Non-members SWFRs 1327. Details from ESOMAR, 11 Weststraat 29, 1071 JP Amsterdam, The Netherlands. Tel: (20) 64.21.41. Telex: 18335 smar nl.

Time planning for success. London, January 30-31. Fee: £205. Details from Peter Yates, Publicity Consultants, BIS Applied Systems Limited, York House, 199 Westminster Bridge Road, London SE1 7UT. Tel: 01-633 0866.

Quality management, Brussels.

January 14-18. Fee: Non-members BF 65,000. Members BF 59,000. Details from Management Centre Europe, rue Caroly 15, B-1040 Brussels. Tel: 32/2/516.19.11. Telex 21.917.

Industrial selling skills. Berks, February 4-6. Fee: £250. Details from Ruth Draboth, Course Administrator, Urwick Management Centre, Baylis House, Stoke Poges Lane, Slough, Berks SL1 3PF. Tel: 0753-94111. Telex: 296 247 Urwick G.

TECHNOLOGY

EDITED BY ALAN CANE

JAPANESE FUTURE FACTORY PROJECT

Lessons in automation

BY PETER MARSH

ENGINEERS in Japan have finished work on a \$40m prototype factory designed to test strategies in automated manufacturing for the 1990s.

The plant, at the Japanese Government's Mechanical Engineering Laboratory in Tsukuba City near Tokyo, will be demolished early next year after the 20 or so companies participating in the scheme have digested lessons from it. Companies working with Government technologists in the project include Toshiba, Toyota, Makino, and Kobe Steel.

The exercise has knitted together aspects of production engineering such as materials handling, assembly, computerised machining, automated test procedures and laser cutting.

Professor Keith Rathmill, head of the Cranfield Institute of Technology, visited the plant recently. He says it should provide a proving ground on which to test theories about how to make a series of small batches in an automated fashion, in such a way that the lead times to introduce new products are kept low.

With experience from the exercise, Japanese engineers will be able to select the strategies that work, discarding the ones that lead up to technological blind alleys.

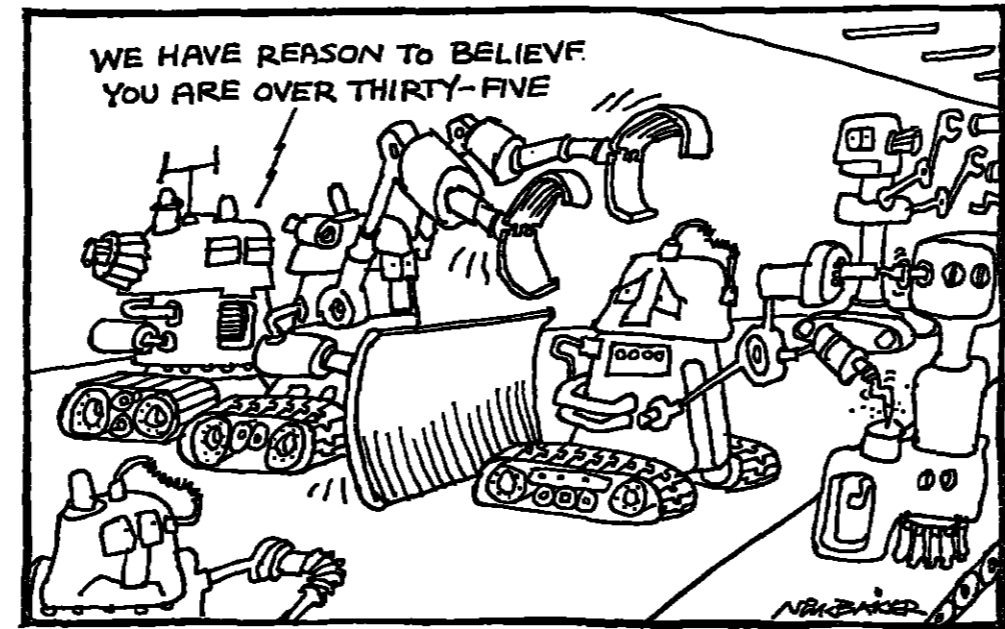
The factory turns out gear boxes with the minimum of human intervention. The starting materials include simple parts such as bearings, seals and fasteners that are bought from other manufacturers. More complicated components such as casings and shafts are fashioned from law lumps of metal by machine tools and other factory hardware such as lasers.

Transfer of parts between different machines is left to a series of driverless carts, guided by wires, shuttle to and from along set pathways.

The plant is supervised by a hierarchy of computers administered by workers in a control room. According to Prof Rathmill, the Japanese look upon the factory as the result of an R and D exercise and do not try to pretend it represents what might be installed in industry.

In an assessment of the project, Prof Rathmill has split the work at Tsukuba into different sections:

- Preforming. Activities here are at satellite locations away from the main plant. Engineers have developed automated forging machines to shape hot segments of metal into items such as tubes, discs and shafts that are fed into the main factory.
 - Product design. The professor was taken aback by what he felt to be the lack of attention given to this area. There was little reference to computer-aided design. "All the answers I got (from engineers at the plant) pointed to a surprisingly simple approach in defining the parts spectrum." The workshop can turn out only a limited range of gear boxes and the professor found little link between strategies for linking the design process to production.
 - Laser technology. The workshop contains a 10 kW carbon-dioxide machine for cutting and welding at one work station. A second beam from the same device is directed to another station for surface hardening of components, for instance the teeth in gear wheels. A second laser, a 300W neodymium-YAG device, sends radiation that is split to three machining centres, to cut up small chips. Technicians have developed a further carbon-dioxide machine (rated at 20 kW, a particularly high power) but at the time of Prof Rathmill's visit this had not been integrated into the complex.
 - Machining. As with many orthodox computerised machining centres, unmanned carts glide up to machining work stations and present raw parts to spindles. Tools then gouge out lumps from the metal in a preset fashion according to a program in the station's computer memory. The working principles are to ensure that the hardware works in a flexible fashion according to the program driving it.
- The Japanese have taken this process a step further by building into their system a series of interchangeable spindles, each of which can be activated to do different cutting jobs. Prof Rathmill is uncertain on



whether this technique is commercially viable. "The overall impression of the machining cell area was one of an extremely expensive, potentially problematic density of spindles and axes of motion."

● Assembly and test. A gantry-style robot (similar to the 7565 model made by IBM) is used to assemble parts into finished gearboxes. The professor was disappointed to see no robot that was more advanced. "In assembly robots, I feel they are copied out." In the testing area, automated equipment loaded components into apparatus to measure their behaviour under vibration and other loads.

● Unmanned carts. These operate along fixed pathways, and were no more advanced than those seen in commercial systems.

● Parts marshalling. The engineers on the project have made progress in techniques to organise the flow of raw material.



Right is Professor Rathmill with Mr Martin Woollett of Cranfield Institute.

It runs one-year MSc courses in subjects concerned with automation. Three courses, in flexible-manufacturing systems, robotics and advanced-manufacturing technology, are between them training about 60 people a year. Most of these individuals are engineers in their mid 20s who are sponsored by companies for which they are already working.

Staff at the unit do research for industry in specific technical areas. Students on the courses (besides those training for an MSc, the robotics group has a number of people studying

for three years for PhDs) help out. Prof Rathmill says that to run a successful teaching operation in industrial technologies it is vital to organise a concurrent research effort in work that is commercially relevant. The Cranfield group is working with Texas Instruments on relatively cheap flexible manufacturing systems that cost no more than £500,000.

Prof Rathmill says that UK industry has generally been positive about supporting his unit and sees "positive growth and interest" in Britain in high-technology manufacturing.

UNIVERSITY RESEARCH

Lasers for medical treatment

A SIMPLE machine developed at a university laboratory with the Ministry of Defence promises to extend the lives of a new and promising form of laser.

Gas purifiers for excimer lasers were developed at Oxford University's Clarendon Laboratory in the late 1970s. The lasers produce blasts of high energy and have a variety of applications from medicine to electronics.

Oxford Lasers, a small company formed by people at the laboratory, is selling the purifiers to manufacturers of excimer lasers that want to make their products more useful in industry.

Oxford Lasers has sold 60 of the devices and is expanding rapidly—in the past nine months its staff has doubled to 16.

The gas purifiers use cryogenic techniques to get rid of contaminants. They strike at a problem that dogs users of excimer lasers. The lasers use highly reactive fluoride compounds which are easily contaminated. Electrons, the power output of the machine may fluctuate. In an industrial process, workers would have to replace continually the lasing materials, a time-consuming and expensive operation.

With the gas purifier, says Oxford Lasers, lifetimes of the lasers can be increased by a factor of 10 or more. The company is selling its machines to several manufacturers of excimer lasers, among them Questek and Sopra of the U.S., Lumonics of Canada and Lambda Physik of West Germany. The gas purifiers cost some £4,500, roughly 10 per cent of the total for an excimer laser.

Excimer lasers have created interest because they emit pulses of light at relatively high energy. The wavelength of the radiation is in the ultraviolet region at around 200 nanometres.

With the machines engineers can channel high-energy photons at materials, for example to remove selectively fragments of a surface coating. The devices show particular promise in chip manufacture. Researchers are examining applications in removing layers of chemical resists built up on a semiconductor substrate. This is a key part of the lithography

process used to produce circuit elements.

In conventional chip making, engineers use ordinary ultraviolet light. With the high-energy radiation from the excimer laser, workers may be able to create circuit patterns in finer detail and at higher speeds.

They may also be able to dispense with the development process that is usually required to remove parts of the chemical resist after irradiation with light. With the laser rays, development may not be needed—the beams are of such high energy that the segments of resist are simply blasted away.

Excimer lasers are also under investigation in other areas of industry and in medicine—where they could be useful in eye surgery.

In excimer lasers, streams of gases are passed into a tube. The materials usually include fluorine and krypton—these combine to give a rare-gas fluoride. Electrons, stream through the mixture via electrodes, stimulate emission of photons which leads to the laser radiation.

As fluorine is so reactive, it combines with traces of elements such as silicon, carbon and sulphur that may be present in the tube—for example as part of the electrodes. The productions of such reactions contaminate the rare-gas fluoride, decreasing the power output of the machine.

In some cases, an excimer laser may produce radiation for only half an hour before the cases have to be replaced.

To purify the rare-gas fluoride chemically would be very difficult. The substance would react with any chemicals introduced into the tube, producing more contamination.

Oxford Lasers turned to a straight-forward cryogenic technique developed during work for the Ministry of Defence (which is interested in excimer lasers because of their possible military applications).

At this temperature, the rare-gas fluorides remain gases—but virtually all the contaminants freeze. The fluoride can be channelled back to the laser tube by closed loop, while the impurities are removed periodically as a solid sludge, just as someone would defrost a refrigerator.

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Medicine

Watchdog computer

FOR LESS than £6,000, doctors can buy a computer system which gives patient details of preventative care. Running on the IBM XT computer, the system from Update Computers produces a list for the doctor showing for each patient visiting the surgery that day all overdue items of preventative care.

The system was developed by Drs Michael Whitfield and Stan Shepherd and Update. Dr Whitfield has had an Update system in his Bristol practice since last year.

Offshore

Explosive cutters

BRITAIN has taken delivery of explosive cutters to protect pipelines connected with the Brent A platform from accidental damage.

The devices, said by the supplier, Honeywell Lesfield, to be the world's largest explosive cutters, are fitted to a gas pipeline linked to the platform. The cutters would automatically sever the line if a ship's anchor or other marine obstruction hooks the structure and exerts a force of more than 3 tonnes.

Banking

Foreign dealing

Barclays International Rates Display System for the bank foreign exchange dealing room has recently been completed by Logica. The system is used by more than 100 dealers each of whom have two screens which monitor a combination of Barclays' internal exchange information, and external services such as Reuters and Dow Jones.

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